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November 6, 2014

Mr. Chris Black
EPA Project Coordinator
U.S. Environmental Protection Agency, Region 5
77 West Jackson Blvd.
Corrective Action Section, LU-9J
Chicago, IL 60604-3590

Subject: 2014 Third Quarter Progress Report, Former Warner Electric Clutch and Brake Facility, Roscoe, Illinois (RCRA-05-2013-0005)

Dear Mr. Black:

This progress report documents the results of groundwater monitoring activities at the former Warner Electric Clutch and Brake facility (Warner) in Roscoe, Illinois following the third quarter monitoring in 2014. This report is provided in accordance with the Amended Administrative Order on Consent (AAOC) between Dana Companies LLC (Dana) and the United States Environmental Protection Agency Region 5 (USEPA), dated April 17, 2013. Further, this report supports the USEPA letter of June 17, 2014, which found that the project has successfully completed construction of the remedy, which is designed to achieve long term protection of human health and the environment (CA550 – event code).

Overall, the monitoring continues to show results consistent with past sampling events. On-site long term monitoring wells show chlorinated volatile organic compound (CVOC) concentrations below the long term cleanup criteria. Two source area wells (MW-103 and MW-104) where TCE concentrations increased during the second quarter sampling event, showed much lower concentrations during the third quarter as the oxidation reduction potential (ORP) and dissolved oxygen levels remained low. Continued quarterly sampling is needed at these wells. More importantly, long term monitoring wells at and near the facility property boundary, as well as those along Edgemere Terrace, continue to show concentrations below the intermediate cleanup goals and in most cases below the long term cleanup goals.

Background

Dana conducted remediation activities at the Warner site under an Administrative Order on Consent (AOC) between the USEPA and Dana, dated December 28, 1989. During most of the time the AOC was in place, remediation was accomplished through the capture and treatment of affected groundwater near the Rock River, approximately 1.25 miles downgradient from the Warner facility (Figure 1). However, the system became increasingly inefficient and ineffective as concentrations of hazardous constituents, primarily trichloroethene (TCE) and cis-1,2-dichloroethene (cis-1,2-DCE), decreased over time. By 2007, influent concentrations had decreased to a level below the National Pollution Discharge Elimination System (NPDES) permitted effluent limits, and the system no longer provided any substantive remedial benefit.

At this point, Dana approached the USEPA and requested an amendment to the AOC to refocus remedial activities to the Warner facility where residual impacts remained. As part of this effort, Dana developed the 2007 Work Plan that employed enhanced reductive dechlorination (ERD) and soil vapor extraction (SVE) to address residual subsurface impacts at the facility, and groundwater monitoring to document the success of remedial efforts. In 2009, following revisions to address USEPA comments, a final version of the Work Plan was approved by the USEPA.

In 2010, the USEPA issued a Statement of Basis outlining historic remedial efforts at the site and revised the planes of performance for long-term remediation at the site.

To expedite remediation of the facility, Dana voluntarily undertook the remedial efforts outlined in the Work Plan prior to the promulgation of the revised AOC. In April 2010, an ERD program, consisting of 300 injection points was implemented and the SVE system was brought on-line. The SVE system operated until September 2011, when influent sampling showed the system had reduced concentrations by a factor of nearly 9,000x and little rebound was noted following system shutdown. In 2013, when groundwater levels rose following a drought, TCE concentrations in the source area increased. To address this, a supplemental ERD program, consisting of 39 injection points, was conducted in 2013. Following the supplemental ERD program, CVOC concentrations in groundwater returned to levels well below the intermediate cleanup criteria.

Groundwater Monitoring

Since 2009, groundwater monitoring has been conducted quarterly at a series of 19 monitoring wells in accordance with the 2009 Work Plan. Figures 1 and 2 depict the overall location of the project and the position of the monitoring wells relative to the facility and the Rock River.

During the week of September 22 to 26, 2014, Dana collected quarterly groundwater samples from the 19 monitoring wells. As in the past, samples were collected using low-flow sampling techniques with a bladder pump. Stabilization was accomplished with field readings of pH, specific conductance, temperature, dissolved oxygen, and ORP. Following stabilization, laboratory-supplied sample containers were filled directly from the pump discharge without filtration. Samples were stored on ice prior to delivery to the PACE Analytical Services, Inc., (PACE) for laboratory analysis of the site-related volatile organic compounds (VOCs) and total chromium. Quality control samples included field duplicates and rinse blanks (10 percent of the samples collected), trip blanks (one per cooler), laboratory method blanks, and surrogate spike samples.

Tables 1 through 4 present tabulated summaries of the field and laboratory analysis. Figures 3 through 22 present time concentration graphs for TCE and cis-1,2-DCE. Attachment A contains the laboratory analytical report. Following are pertinent observations regarding the results and trends noted on the figures and tables.

On-site Source Area Wells MW-101 through MW-107 (Table 1, Figures 3 through 9):

- Wells MW-101 and MW-102 showed low concentrations of TCE that were within historic post-injection concentrations.
- Wells MW-103 and MW-104, where increases in TCE concentrations were reported in the second quarter, showed over 50 percent decrease in concentrations 34.1 and 99.2 µg/L, respectively in the third quarter. ORP (-91 and -69 mVolts) and dissolved oxygen (0.1 to 0.04 mg/L) remained low, reflecting conditions that remain suitable for reductive dechlorination.
- Well MW-105 showed low concentrations of both TCE and cis-1,2-DCE (less than 15 µg/L). Vinyl chloride was again elevated at this well during the second quarter sampling event (29.2 µg/L). However, as the aquifer returns to aerobic conditions, it is anticipated that vinyl chloride will undergo aerobic oxidation or cometabolism to decrease concentrations below the long term cleanup criteria. Vinyl chloride has not been detected in the downgradient wells on Hononegah Road or Edgemere Terrace. Table 1 and Figure 7 also show that the TCE concentration increase observed in early 2013 (with TCE concentrations up to 355 µg/L in well MW-103) was reflected with concentrations no higher than 51 µg/L in MW-105. This demonstrates a strong degree of natural attenuation immediately down gradient of the source area between MW-103 and MW-105.
- Wells MW-106 and MW-107 continue to show trace to low TCE concentrations (less than 15 µg/L) with stable conditions.

- Routine monitoring in these wells over the past four to six years show that they are clearly prepared for remediation by long-term MNA.

On-site Long-term Monitoring Wells - LTMW-01, -02, -03, and -03A (Table 2, Figures 10 through 13):

- Wells LTMW-01 and LTMW-02 meet the long-term cleanup criteria for all CVOCs.
- Wells LTMW-03 (a shallow monitoring well) and LTMW-03A (a deep monitoring well) have concentrations near the long-term cleanup criteria for TCE and cis-21,2-DCE. However, the vinyl chloride concentrations of 11.2 and 4.1 µg/L, respectively remain above the long term cleanup criteria (2 µg/L). The presence of vinyl chloride reflects reductive dechlorination. As the aquifer returns to aerobic conditions, it is anticipated that vinyl chloride will undergo aerobic oxidation or cometabolism to decrease concentrations below the long term cleanup criteria within the next several monitoring events.
- Quarterly monitoring results and trends in these wells over the past four years show that these wells are clearly ready for remediation by long-term MNA.

Off-site Long-term monitoring Wells on Hononegah Road - LTMW-04, -05, -06, -07 (Table 3, Figures 14 through 18):

- The wells along Hononegah Road continue to show stable conditions. Figure 14 depicts the long term TCE concentration trend at this location, using both the original well, N1-60, which had to be abandoned in 2005, as well as the new long term monitoring wells installed in 2009 (LTMW-04 through -07). As Figure 14 illustrates, there has been a dramatic reduction in TCE concentration over time. In the late 1980s TCE concentrations ranged from 1,000 to 1,400 µg/L (these high concentrations are not shown on the figure in order to maintain a useful scale for depicting current concentrations). In the 1990s, TCE concentrations decreased to levels below 500 µg/L. From 2000 to 2005, TCE concentrations continued to fall to levels below 50 µg/L where they remain today. Given this long term stable condition, less frequent (semi-annual) monitoring of these wells is recommended. Less frequent monitoring is particularly applicable at this location since these wells are only used to judge long term concentration trends (as opposed to the source area or Edgemere Terrace, where monitoring results may be used to trigger more active remedial efforts).
- Figures 15 and 18 show that TCE concentrations in wells LTMW-04 and LTMW-07 near the western and eastern boundary of the zone of affected groundwater, respectively, have low TCE concentrations (<10 µg/L at LTMW-04 and <0.050 at LTMW-07). This reflects the shrinking of the area of affected groundwater margins.
- Wells LTMW-05 and LTMW-06 showed stable TCE concentrations 10.6 and 33.5 µg/L, respectively, reflecting conditions near the center of the zone of affected groundwater.

Off-site Long-term Monitoring Wells along Edgemere Terrace - LTMW-08, -09, -10, -11 (Table 4, Figures 19 through 22):

- The wells along Edgemere Terrace continue to show stable conditions, with all 4 wells reporting TCE at concentrations below the intermediate cleanup criteria for groundwater to surface water discharge (25 µg/L). Based on the AAOC these conditions show that the groundwater pump and treat remediation system should remain shut down.
- Wells LTMW-08 and LTMW-11, near the western and eastern boundary of the zone of affected groundwater, respectively, continue to reflect minimal impact with TCE concentrations (less than 4.5 µg/L), below the long-term cleanup criteria. As with wells LTMW-04 and LTMW-07 on Hononegah Road, this again reflects shrinking of the margins of the area of affected groundwater.
- Wells LTMW-09 and LTMW-10, located near the center of the zone of affected groundwater, showed slightly higher TCE concentrations (5.0 and 15.3 µg/L, respectively). These concentrations are well below the intermediate groundwater to surface water discharge criteria.

Conclusions

Dana has conducted quarterly groundwater sampling at 19 monitoring wells associated with the Warner facility for the last 4.75 years. Results continue to show that remedial efforts conducted at the source area have been successful with substantial reduction in the concentration of CVOCs, the hazardous constituents reported at the facility. The increase in TCE concentrations was observed in source area wells MW-103 and MW-104 during the second quarter was short lived as conditions in the aquifer remain favorable for reductive dechlorination. AECOM anticipates concentrations will stabilize or decrease during the next several monitoring events. In addition, all on-site long term monitoring wells are near or below the long term cleanup criteria. These results show that the project is well prepared for remediation by MNA.

Wells along Hononegah Road (LTMW-04, -05, -06, and -07) continue to show stable conditions. Dana previously requested a reduction in the sampling frequency from quarterly to semi-annual for these wells. Wells along Edgemere Terrace near the Rock River (LTMW-08, -09, -10, and -11) continue to meet the intermediate cleanup criteria for groundwater to surface water discharge. Based on this, the groundwater pump and treat remediation system will remain in standby mode.

Dana and AECOM respectfully request your concurrence that reducing the sample frequency at the long term monitoring wells along Hononegah Road (LTMW-04, -05, -06, and -07) from quarterly to semi-annual is appropriate.

Please do not hesitate to contact me at (608) 828-8201 if you have any questions or comments on this letter or the attached figures or tables.

Sincerely,



James A. Buss, P.G
Project Manager

Tables:

- Table 1 – Summary of Source Area Monitoring Well Sampling Results
- Table 2 – Summary of On-site Long-term Monitoring Well Sampling Results
- Table 3 – Summary of Hononegah Road Long-term Monitoring Well Sampling Results
- Table 4 – Summary of Edgemere Terrace Long-term Monitoring Well Sampling Results

Figures:

- Figure 1 – Site Location Map
- Figure 2 – Monitoring Well Location Plan
- Figure 3 – MW-101 CVOC Concentration Trend
- Figure 4 – MW-102 CVOC Concentration Trend
- Figure 5 – MW-103 CVOC Concentration Trend
- Figure 6 – MW-104 CVOC Concentration Trend
- Figure 7 – MW-105 CVOC Concentration Trend
- Figure 8 – MW-106 CVOC Concentration Trend
- Figure 9 – MW-107 CVOC Concentration Trend
- Figure 10 – LTMW-01 CVOC Concentration Trend
- Figure 11 – LTMW-02 CVOC Concentration Trend
- Figure 12 – LTMW-03 CVOC Concentration Trend
- Figure 13 – LTMW-03A CVOC Concentration Trend
- Figure 14 – Long Term TCE Concentration Trend at Hononegah Road
- Figure 15 – LTMW-04 CVOC Concentration Trend

Figure 16 – LTMW-05 CVOC Concentration Trend
Figure 17 – LTMW-06 CVOC Concentration Trend
Figure 18 – LTMW-07 CVOC Concentration Trend
Figure 19 – LTMW-08 CVOC Concentration Trend
Figure 20 – LTMW-09 CVOC Concentration Trend
Figure 21 – LTMW-10 CVOC Concentration Trend
Figure 22 – LTMW-11 CVOC Concentration Trend

Attachment:

Attachment 1 – September 2014 Laboratory Analytical Report

Table 1
Source Area Monitoring Well Summary
Former Warner Facility
Roscoe, Illinois

Well	Date	Field Parameters							Inorganics				Volatile Organic Compounds						
		Water Depth	Water Elev.	Sample Temp.	pH	Spec. Cond.	ORP	Dis. Oxygen	Dis. Iron	Dis. Manganese	Nitrate	Sulfate	1,1,1-TCA	1,1-DCA	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
		Feet	Ft. MSL	°C	Std. Units	µmhos/cm	mV	mg/L	µg/L	µg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Intermediate Groundwater Cleanup Goal - For Source Area Monitoring Wells⁽¹⁾																			
MW-101	9/16/2008	25.59	728.29	14.0	6.65	840	311	2.0	NM	NM	NM	<1.0	<1.0	35.7	3	<1.0	<1.0	<1.0	
	9/26/2008	NM ⁽²⁾	NM	NM	NM	NM	NM	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	
	10/8/2008	26.04	727.84	14.6	6.24	2,280	-569	1.5	327,000	5,440	<0.40	29.3	<1.0	1.4	<1.0	134	45.7	<1.0	<1.0
	11/6/2008	26.65	727.23	13.9	7.12	940	-130	1.0	35,700	863	0.73	13.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	11/24/2008	27.00	726.88	13.3	7.71	825	-255	0.2	14,700	273	0.51	11.6	<1.0	<1.0	<1.0	12.9	3.2	<1.0	<1.0
	12/15/2008	27.25	726.63	12.9	7.82	788	-273	0.2	12,600	126	<0.40	9.5	<1.0	<1.0	<1.0	6.4	1.3	<1.0	<1.0
	3/10/2010	27.55	726.33	13.7	7.40	724	-128	0.8	3,230	5.7	NM	<1.0	<1.0	<1.0	16.6	6.4	<1.0	<1.0	<1.0
	5/27/2010	26.96	726.92	15.0	7.22	1127	-152	1.6	40,100	792	NM	5.2	5.6	<1.0	<1.0	40.8	8.1	<1.0	<1.0
	7/1/2010	27.12	726.76	14.7	7.10	740	-10	0.1	7,690	132	NM	11.1	<1.0	<1.0	<1.0	2.0	<1.0	<1.0	<1.0
	7/29/2010	26.95	726.93	17.9	7.83	817	-290	0.1	7,870	136	NM	<1.0	<1.0	<1.0	1.6	<1.0	<1.0	<1.0	<1.0
	8/31/2010	26.55	727.33	16.5	7.69	787	-249	0.0	6,030	160	NM	<1.0	<1.0	<1.0	2.9	<1.0	<1.0	<1.0	<1.0
	9/24/2010	27.08	726.80	16.2	7.69	783	-256	0.1	5,860	149	NM	14.2	<1.0	<1.0	<1.0	2.8	<1.0	<1.0	<1.0
	11/4/2010	27.79	726.09	14.3	7.54	711	-164	1.0	4,010	189	NM	<1.0	<1.0	<1.0	2.8	<1.0	<1.0	<1.0	<1.0
	11/29/2010	28.23	725.65	13.0	7.54	730	-147	0.7	3,140	174	NM	<1.0	<1.0	<1.0	2.5	<1.0	<1.0	<1.0	<1.0
	12/20/2010	28.48	725.40	13.9	7.43	712	-129	1.6	2,820	126	NM	16.6	<1.0	<1.0	<1.0	2.0	<1.0	<1.0	<1.0
	3/22/2011	28.13	725.75	14.2	7.43	716	-145	0.9	NM	NM	NM	<0.9	<0.75	<0.45	1.6	<0.83	<0.89	<0.18	<0.18
	7/7/2011	28.08	725.80	17.2	7.61	759	-148	0.8	NM	NM	NM	<0.9	<0.75	<0.45	1.7	<0.83	<0.89	<0.18	<0.18
	9/23/2011	28.79	725.09	28.8	7.44	712	-132	2.4	NM	NM	NM	<0.9	<0.75	<0.45	1.6	<0.83	<0.89	<0.18	<0.18
	12/21/2011	29.14	724.74	15.8	7.39	665	-120	3.1	NM	NM	NM	<0.9	<0.75	<0.45	1.5	<0.83	<0.89	<0.18	<0.18
	3/6/2012	29.5	724.38	15.2	7.47	692	-74	0.6	NM	NM	NM	<0.9	<0.75	<0.45	1.5	<0.83	<0.89	<0.18	<0.18
	6/7/2012	29.96	723.92	14.8	7.46	716	-125	2.0	NM	NM	NM	<0.9	<0.75	<0.45	1.6	<0.83	<0.89	<0.18	<0.18
	9/27/2012	32.63	721.25	14.9	7.35	788	-95	4.1	NM	NM	NM	<0.9	<0.75	<0.45	<0.48	<0.83	<0.89	<0.18	<0.18
	12/20/2012	32.22	721.66	14.9	7.33	795	-38	4.6	NM	NM	NM	<0.9	<0.75	<0.45	<0.48	<0.83	<0.89	<0.18	<0.18
	3/9/2013	31.64	722.24	14.4	7.35	726	-16	4.2	NM	NM	NM	<0.9	<0.75	<0.45	0.50 J	<0.83	<0.89	<0.18	<0.18
	5/20/2013	27.7	726.18	15.2	7.31	725	-54	3.5	NM	NM	NM	<0.44	<0.28	<0.47	4.6	<0.42	<0.37	<0.18	<0.18
	8/27/2013	26.7	727.18	17.2	7.39	741	-57	3.7	NM	NM	NM	<0.44	<0.28	<0.47	4.3	<0.42	<0.37	<0.18	<0.18
	12/11/2013	28.8	725.08	15.3	7.19	718	5	5.2	NM	NM	NM	<0.44	<0.28	<0.47	12.8	<0.42	<0.37	<0.18	<0.18
	3/11/2014	29.39	724.49	15.2	7.24	725	-74	4.0	NM	NM	NM	0.58 J	0.49 J	<0.47	22.6	0.90 J	<0.37	<0.18	<0.18
	6/25/2014	28.09	725.79	16.8	7.26	733	23	4.6	NM	NM	NM	0.68 J	0.55 J	<0.50	24.3	1.9	<0.26	<0.18	<0.18
	9/24/2014	28.25	725.63	15.9	7.28	763	-17	5.2	NM	NM	NM	<0.50	0.53 J	<0.50	26.8	3.6	<0.26	<0.18	<0.18
MW-102	9/16/2008	25.40	728.32	14.0	6.49	854	331	2.0	NM	NM	NM	1.8	<1.0	<1.0	80.7	14.9	<1.0	<1.0	<1.0
	9/26/2008, S ⁽³⁾	NM	NM	15.6	6.96	855	270	8.8	NM	NM	NM	2.3	1	<1.0	106 ⁽⁵⁾	17.1	<1.0	<1.0	<1.0
	9/26/2008, D ⁽⁴⁾	NM	NM	15.2	6.97	855	263	7.9	NM	NM	NM	2.6	1.2	<1.0	128	21.8	<1.0	<1.0	<1.0
	10/8/2008	25.93	727.79	14.5	6.9	1012	-284	1.8	1,230	953	<0.40	22.7	2.1	<1.0					

Table 1
Source Area Monitoring Well Summary
Former Warner Facility
Roscoe, Illinois

Well	Date	Field Parameters							Inorganics				Volatile Organic Compounds						
		Water Depth	Water Elev.	Sample Temp.	pH	Spec. Cond.	ORP	Dis. Oxygen	Dis. Iron	Dis. Manganese	Nitrate	Sulfate	1,1,1-TCA	1,1-DCA	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
		Feet	Ft. MSL	°C	Std. Units	µmhos/cm	mV	mg/L	µg/L	µg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Intermediate Groundwater Cleanup Goal - For Source Area Monitoring Wells ⁽¹⁾																			
MW-102 continued	7/7/2011	27.90	725.82	17.6	7.42	750	-51	1.8	NM	NM	NM	< 0.9	< 0.75	< 0.45	2.1	< 0.83	< 0.89	< 0.18	
	9/23/2011	28.68	725.04	15.7	7.32	703	-42	2.8	NM	NM	NM	< 0.9	< 0.75	< 0.45	2.3	< 0.83	< 0.89	< 0.18	
	12/21/2011	29	724.72	15.8	7.36	642	-75	2.1	NM	NM	NM	< 0.9	< 0.75	< 0.45	3.5	< 0.83	< 0.89	< 0.18	
	3/6/2012	29.5	724.22	15.1	7.50	655	-55	0.4	NM	NM	NM	< 0.9	< 0.75	< 0.45	4.1	< 0.83	< 0.89	< 0.18	
	6/7/2012	29.84	723.88	14.5	7.38	665	-50	0.6	NM	NM	NM	< 0.9	< 0.75	< 0.45	3.2	< 0.83	< 0.89	< 0.18	
	9/27/2012	31.50	722.22	14.7	7.53	691	-120	0.4	NM	NM	NM	< 0.9	< 0.75	< 0.45	0.8 J	< 0.83	< 0.89	< 0.18	
DUP-02	9/27/2012	31.50	722.22	14.7	7.53	691	-120	0.4	NM	NM	NM	< 0.9	< 0.75	< 0.45	0.76 J	< 0.83	< 0.89	< 0.18	
	12/20/2012	32.05	721.67	14.9	7.43	736	-81	1.1	NM	NM	NM	< 0.9	< 0.75	< 0.45	0.67 J	< 0.83	< 0.89	< 0.18	
DUP-02	12/20/2012	32.05	721.67	14.9	7.43	736	-81	1.1	NM	NM	NM	< 0.9	< 0.75	< 0.45	0.64 J	< 0.83	< 0.89	< 0.18	
	3/9/2013	31.49	722.23	14.6	7.34	710	-29	2.3	NM	NM	NM	< 0.9	< 0.75	< 0.45	6	< 0.83	< 0.89	< 0.18	
DUP-02	3/9/2013	31.49	722.23	14.6	7.34	710	-29	2.3	NM	NM	NM	< 0.9	< 0.75	< 0.45	6.1	< 0.83	< 0.89	< 0.18	
	5/20/2013	27.58	726.14	15.1	7.33	692	-41	1.0	NM	NM	NM	< 0.44	< 0.28	< 0.47	6.5	0.65 J	< 0.37	< 0.18	
DUP-02	5/20/2013	27.58	726.14	15.1	7.33	692	-41	1.0	NM	NM	NM	< 0.44	< 0.28	< 0.47	8.1	0.69 J	< 0.37	< 0.18	
	8/27/2013	26.55	727.17	16.2	7.23	721	-117	2.2	NM	NM	NM	< 0.44	< 0.28	< 0.47	13.9	0.60 J	< 0.37	< 0.18	
DUP-02	8/27/2013	26.55	727.17	16.2	7.23	721	-117	2.2	NM	NM	NM	< 0.44	< 0.28	< 0.47	13.5	0.71 J	< 0.37	< 0.18	
	12/11/2013	28.61	725.11	15.6	7.23	688	-6	1.7	NM	NM	NM	< 0.44	< 0.28	< 0.47	6.9	2	< 0.37	< 0.18	
DUP-02	3/12/2014	29.23	724.49	13.3	7.26	701	-87	1.5	NM	NM	NM	< 0.44	0.35 J	< 0.47	25.7	4.1	< 0.37	< 0.18	
	3/12/2014	29.23	724.49	13.3	7.26	701	-87	1.5	NM	NM	NM	< 0.44	0.38 J	< 0.47	26.9	4.3	< 0.37	< 0.18	
DUP-02	6/25/2014	27.94	725.78	19.2	7.15	739	58	2.8	NM	NM	NM	0.57 J	0.37 J	< 0.50	36.2	4.5	< 0.26	< 0.18	
	6/25/2014	27.94	725.78	19.2	7.15	739	58	2.8	NM	NM	NM	0.71 J	0.39 J	< 0.50	35.6	4.3	< 0.26	< 0.18	
DUP-02	9/24/2014	28.07	725.65	16.4	7.27	736	50	4.0	NM	NM	NM	< 0.50	< 0.24	< 0.50	10.9	1.1	< 0.26	< 0.18	
	9/24/2014	28.07	725.65	16.4	7.27	736	50	4.0	NM	NM	NM	< 0.50	< 0.24	< 0.50	10.6	0.87 J	< 0.26	< 0.18	
MW-103	9/16/2008	25.4	728.28	14.3	6.65	864	344	2.0	NM	NM	NM	1.3	< 1.0	< 1.0	132	23.1	< 1.0	< 1.0	
	9/26/2008	NM	NM	14.2	6.93	867	243	8.7	NM	NM	NM	< 5.0	< 5.0	< 5.0	230	39.9	< 5.0	< 5.0	
	10/8/2008	25.96	727.72	14.1	6.88	984	-93	3.9	969	758	2.3	22.6	1.3	< 1.0	< 1.0	149	23.3	< 1.0	< 1.0
	11/6/2008	26.57	727.11	14.4	6.89	906	-200	1.2	2,440	1,340	0.41	12.2	1.1	< 1.0	< 1.0	120	19.7	< 1.0	< 1.0
	11/24/2008	26.86	726.82	13.4	6.88	948	-244	0.3	2,770	1,170	< 0.40	7.3	< 1.0	< 1.0	< 1.0	78.2	23.3	< 1.0	< 1.0
	12/15/2008	27.27	726.41	13.5	7.14	774	-223	0.2	3,240	512	< 0.40	4.4	< 1.0	< 1.0	< 1.0	62.0	44.8	< 1.0	< 1.0
	3/9/2010	27.40	726.28	13.8	7.19	729	-59	0.7	276	443	NM	< 1.0	< 1.0	< 1.0	40.6	10.7	< 1.0	< 1.0	
	5/27/2010	26.82	726.86	15.8	7.01	837	-175	0.3	5,070	462	NM	4	< 1.0	< 1.0	< 1.0	1.9	51.1	< 1.0	< 1.0
	7/1/2010	27.03	726.65	15.0	6.85	763	-6	0.1	4,180	326	NM	5.1	< 1.0	< 1.0	< 1.0	3.2	28.6	< 1.0	< 1.0
	7/29/2010	26.90	726.78	18.8	7.29	759	-222	0.4	3,230	233	NM	< 1.0	< 1.0	< 1.0	11.3	14.5	< 1.0	< 1.0	
	8/30/2010	26.41	727.27	18.2	7.18	726	-175	0.2	2,720	219	NM	< 1.0	< 1.0	< 1.0	11.3	6.4	< 1.0	< 1.0	
	9/24/2010	26.90	726.78	16.6	7.28	721	-270	0.2	1,880	202	NM	13.7	< 1.0	< 1					

Table 1
Source Area Monitoring Well Summary
Former Warner Facility
Roscoe, Illinois

Well	Date	Field Parameters							Inorganics				Volatile Organic Compounds						
		Water Depth	Water Elev.	Sample Temp.	pH	Spec. Cond.	ORP	Dis. Oxygen	Dis. Iron	Dis. Manganese	Nitrate	Sulfate	1,1,1-TCA	1,1-DCA	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
		Feet	Ft. MSL	°C	Std. Units	µmhos/cm	mV	mg/L	µg/L	µg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Intermediate Groundwater Cleanup Goal - For Source Area Monitoring Wells⁽¹⁾																			
MW-104	9/16/2008	25.47	728.23	14.3	6.79	842	337	2	NM	NM	NM	1.4	1	<1.0	172	27.4	<1.0	<1.0	
	9/26/2008 (S*)	NM	NM	14.8	6.87	868	166	8.4	NM	NM	NM	<5.0	<5.0	<5.0	356	59.3	<5.0	<5.0	
	9/26/2008 (D*)	NM	NM	14.5	6.80	858	176	7.8	NM	NM	NM	<5.0	<5.0	<5.0	256	41.2	<5.0	<5.0	
DUP-01	10/8/2008	26.01	727.69	14.1	7.13	849	226	8.3	1,250	47.7	5.9	22.2	<2.0	<2.0	157	21.7	<2.0	<2.0	
	11/6/2008	26.62	727.08	14.6	6.82	954	-127	3.2	<100	830	1.3	22.2	<2.5	<2.5	150	51.4	<2.5	<2.5	
	11/24/2008	26.95	726.75	12.0	6.64	893	-158	0.9	644	950	<0.40	12.6	1.8	<1.0	126.0	51	<1.0	<1.0	
DUP-02	12/15/2008	27.34	726.36	12.6	7.03	759	-201	0.5	557	800	<0.40	10.5	1.5	<1.0	109.0	34.9	<1.0	<1.0	
	3/9/2010	27.49	726.21	13.9	7.13	751	-23	0.5	196	474	NM	NM	<1.0	<1.0	<1.0	61.1	20.9	<1.0	<1.0
	5/27/2010	26.91	726.79	15.0	7.00	843	-180	0.2	2,840	602	NM	6.7	5.5	<1.0	<1.0	15.7	112	<1.0	<1.0
	7/1/2010	27.1	726.60	15.2	6.83	760	-6	0.1	3,570	280	NM	8.5	<1.0	<1.0	<1.0	2.8	68.3	<1.0	<1.0
	7/29/2010	26.88	726.82	18.3	7.19	787	-212	0.5	3,240	292	NM	<1.0	<1.0	<1.0	8.3	31.2	<1.0	<1.0	
DUP-01	7/29/2010	26.88	726.82	18.3	7.19	787	-212	0.5	3,140	285	NM	<1.0	<1.0	<1.0	7.6	32.2	<1.0	<1.0	
	8/30/2010	26.55	727.15	18.8	7.06	785	-163	0.2	2,720	315	NM	<1.0	<1.0	<1.0	9.4	12.4	<1.0	<1.0	
	9/24/2010	26.94	726.76	16.6	7.24	758	-253	0.3	2,330	297	NM	13.9	<1.0	<1.0	<1.0	11.4	5.8	<1.0	<1.0
	11/4/2010	27.67	726.03	14.8	7.33	698	-129	0.2	2,220	289	NM	<1.0	<1.0	<1.0	14.6	3.3	<1.0	<1.0	
DUP-02	11/29/2010	28.15	725.55	13.2	7.31	719	-119	0.6	2,010	268	NM	<1.0	<1.0	<1.0	14.0	2.0	<1.0	<1.0	
	12/20/2010	28.34	725.36	14.3	7.23	703	-83	2.7	1,820	258	NM	19.3	<1.0	<1.0	<1.0	15.0	3.0	<1.0	<1.0
	3/22/2011	28.08	725.62	14.3	7.29	677	-122	0.2	NM	NM	NM	<0.9	<0.75	<0.45	1.4	<0.83	<0.89	<0.18	
	3/22/2011	28.08	725.62	14.3	7.29	677	-122	0.2	NM	NM	NM	<0.9	<0.75	<0.45	1.3	<0.83	<0.89	<0.18	
DUP-01	7/7/2011	27.94	725.76	18.1	7.30	780	-54	0.7	NM	NM	NM	<0.9	<0.75	<0.45	11.7	<0.83	<0.89	<0.18	
	9/23/2011	28.7	725.00	16.3	7.23	725	-70	1.8	NM	NM	NM	<0.9	<0.75	<0.45	8.8	<0.83	<0.89	<0.18	
DUP-02	12/21/2011	29.06	724.64	15.9	7.09	722	-55	2.2	NM	NM	NM	<0.9	<0.75	<0.45	3.8	<0.83	<0.89	<0.18	
	3/6/2012	29.59	724.11	14.9	7.28	734	-56	0.3	NM	NM	NM	<0.9	<0.75	<0.45	2.0	<0.83	<0.89	<0.18	
	6/7/2012	29.88	723.82	16.0	7.23	705	-7	0.5	NM	NM	NM	<0.9	<0.75	<0.45	2.4	<0.83	<0.89	<0.18	
	9/27/2012	31.59	722.11	14.8	7.27	719	-75	0.0	NM	NM	NM	<0.9	<0.75	<0.45	0.93 J	<0.83	<0.89	<0.18	
DUP-01	12/20/2012	32.12	721.58	14.9	7.28	734	-50	0.0	NM	NM	NM	<0.9	<0.75	<0.45	0.80 J	<0.83	<0.89	<0.18	
	3/9/2013	31.53	722.17	14.7	7.26	719	4	0.4	NM	NM	NM	<0.9	<0.75	<0.45	5.3	<0.83	<0.89	<0.18	
DUP-02	5/20/2013	27.61	726.09	15.1	7.18	719	23	3.5	NM	NM	NM	<0.44	0.58 J	<0.47	218	38	<0.37	<0.18	
	8/27/2013	26.67	727.03	17.2	7.19	740	76	4.6	NM	NM	NM	0.59 J	<0.28	<0.47	143	7.8	<0.37	<0.18	
DUP-01	10/23/2013	28.03	725.67	15.2	6.88	1030	-103	0.3	NM	NM	NM	<0.44	<0.28	<0.47	<0.36	13.8	<0.37	<0.18	
	11/25/2013	28.41	725.29	15.8	7.05	754	-128	0.1	NM	NM	NM	<0.44	0.41 J	<0.47	2	65.4	<0.37	<0.18	
DUP-02	12/11/2013	28.74	724.96	15.7	7.09	706	-112	0.2	NM	NM	NM	<0.44	0.35 J	<0.47	2.4	49.3	<0.37	<0.18	
	3/11/2014	29.31	724.39	15.1	7.28	728	-119	0.2	NM	NM	NM	<0.44	<0.28	<0.47	9.6	10.3	<0.37	<0.18	
DUP-01	6/25/2014	28.01	725.69	16.2	7.15	826	-60	0.6	NM	NM	NM	0.72 J	2.1	<0.50	201	61.3	<0.26	<0.18	
	9/24/2014	28.18	725.52	15.8	7.19	753	-69	0.04	NM	NM	NM	<0.50	<0.24	<0.50	99.2	10.8	<0.26	<0.18	
MW-105	3/10/2010	25.33	725.86	13.1	7.06	780	-61	NM	<100	655	NM	NM	<1.0	1.8</					

Table 1
Source Area Monitoring Well Summary
Former Warner Facility
Roscoe, Illinois

Well	Date	Field Parameters							Inorganics				Volatile Organic Compounds										
		Water Depth Feet	Water Elev. Ft. MSL	Sample Temp. °C	pH Std. Units	Spec. Cond. μmhos/cm	ORP mV	Dis. Oxygen mg/L	Dis. Iron μg/L	Dis. Manganese μg/L	Nitrate mg/L	Sulfate mg/L	1,1,1-TCA μg/L	1,1-DCA μg/L	PCE μg/L	TCE μg/L	cis-1,2-DCE μg/L	trans-1,2-DCE μg/L	Vinyl Chloride μg/L				
		Intermediate Groundwater Cleanup Goal - For Source Area Monitoring Wells ⁽¹⁾														100							
MW-106	3/10/2010	27.42	725.78	13.1	7.16	752	176	7.0	<100	158	NM	NM	<1.0	<1.0	<1.0	5.2	1.1	<1.0	<1.0	<1.0			
DUP-01	5/28/2010	26.87	726.33	13.7	7.19	720	49	2.0	<100	59.8	NM	16.4	<1.0	<1.0	<1.0	5.3	2.2	<1.0	<1.0	<1.0			
	7/1/2010	27.02	726.18	13.8	6.52	616	-5	2.0	582	516	NM	8.3	<1.0	<1.0	<1.0	3.6	<1.0	<1.0	<1.0	<1.0			
	7/29/2010	26.85	726.35	18.8	7.30	735	-175	0.3	2,130	359	NM	NM	<1.0	<1.0	<1.0	1.8	<1.0	<1.0	<1.0	<1.0			
	8/25/2010	26.36	726.84	15.2	6.99	740	-94	1.1	2,370	234	NM	NM	<1.0	<1.0	<1.0	6.4	2.6	<1.0	<1.0	<1.0			
	8/25/2010	26.36	726.84	15.2	6.99	740	-94	1.1	2,250	229	NM	NM	<1.0	<1.0	<1.0	6.4	2.7	<1.0	<1.0	<1.0			
	9/24/2010	26.95	726.25	15.1	7.15	773	-196	0.8	2,290	190	NM	5.8	<1.0	<1.0	<1.0	6.7	2.9	<1.0	<1.0	<1.0			
	11/4/2010	27.64	725.56	14.5	7.26	739	-118	0.9	2,500	250	NM	NM	<1.0	<1.0	<1.0	5.1	15.7	<1.0	<1.0	<1.0			
	11/29/2010	28.10	725.10	13.9	7.26	766	-114	0.9	2,840	286	NM	NM	<1.0	<1.0	<1.0	1.4	3.8	<1.0	<1.0	<1.0			
	12/21/2010	28.34	724.86	12.9	7.22	751	-84	1.8	2,400	309	NM	20.7	1.3	<1.0	2.1	2.6	4.2	1.5	<1.0	<1.0	<1.0		
	3/17/2011	28.10	725.10	13.8	7.23	785	-90	0.5	NM	NM	NM	<0.9	<0.75	<0.45	1.2	<0.83	<0.89	<0.18					
	7/7/2011	27.94	725.26	14.3	7.19	778	-47	0.9	NM	NM	NM	<0.9	<0.75	<0.45	<0.48	<0.83	<0.89	<0.18					
	9/26/2011	28.68	724.52	13.9	7.08	761	-6	1.1	NM	NM	NM	<0.9	<0.75	<0.45	<0.48	<0.83	<0.89	<0.18					
	12/21/2011	28.99	724.21	13.1	7.07	752	-48	1.6	NM	NM	NM	<0.9	<0.75	<0.45	<0.48	<0.83	<0.89	<0.18					
	3/6/2012	29.53	723.67	13.9	7.26	786	-85	NM	NM	NM	NM	<0.9	<0.75	<0.45	<0.48	<0.83	<0.89	<0.18					
	6/6/2012	29.79	723.41	15.5	7.12	777	13	0.4	NM	NM	NM	<0.9	<0.75	<0.45	<0.48	<0.83	<0.89	<0.18					
	9/27/2012	31.49	721.71	15.3	7.12	744	2	0.1	NM	NM	NM	<0.9	<0.75	<0.45	<0.48	<0.83	<0.89	<0.18					
	12/20/2012	32.00	721.20	13.7	7.15	766	96	0.1	NM	NM	NM	<0.9	<0.75	<0.45	<0.48	<0.83	<0.89	<0.18					
	3/7/2013	31.42	721.78	10.8	7.15	9269	124	1.0	NM	NM	NM	<0.9	<0.75	<0.45	0.97 J	<0.83	<0.89	<0.18					
	5/20/2013	27.45	725.75	16.2	7.08	674	24	0.8	NM	NM	NM	<0.44	<0.28	<0.47	0.74 J	0.86 J	<0.37	<0.18					
	8/28/2013	26.62	726.58	17.0	7.15	749	97	5.1	NM	NM	NM	<0.44	<0.28	<0.47	1.8	0.79 J	<0.37	<0.18					
	12/11/2013	28.68	724.52	13.2	7.20	694	50	6.6	NM	NM	NM	<0.44	<0.28	<0.47	0.89 J	<0.42	<0.37	<0.18					
	3/11/2014	29.29	723.91	12.4	7.23	749	-75	7.4	NM	NM	NM	<0.44	<0.28	<0.47	0.42 J	<0.42	<0.37	<0.18					
	6/24/2014	27.92	725.28	17.4	7.22	762	137	7.5	NM	NM	NM	<0.50	<0.24	<0.50	0.75 J	3	<0.26	<0.18					
	9/24/2014	28.13	725.07	16.4	7.27	779	102	7.1	NM	NM	NM	<0.50	<0.24	<0.50	0.84 J	<0.26	<0.26	<0.18					
MW-107	3/11/2010	27.7	726.08	14.1	7.05	794	139	5.0	<100	NM	NM	15.3	16.4	<1.0	1.6	63.7	4.3	<1.0	<1.0	<1.0			
DUP-03	5/27/2010	27.17	726.61	14.1	7.00	784	91	8.0	<100	31.6	NM	13.8	14.1	<1.0	1.4	53.0	3.2	<1.0	<1.0	<1.0			
	7/1/2010	27.35	726.43	14.5	6.70	723	0	7.7	<100	23.3	NM	12	14.9	<1.0	1.5	57.1	3.3	<1.0	<1.0	<1.0			
	7/29/2010	27.25	726.53	15.3	7.09	728	19	5.1	<100	22.6	NM	NM	13.3	<1.0	1.6	53.3	2.9	<1.0	<1.0	<1.0			
	8/31/2010	26.78	727.00	16.6	7.00	726	10	4.7	<100	13.2	NM	NM	11.1	<1.0	1.4	46.2	5.4	<1.0	<1.0	<1.0			
	9/24/2010	27.28	726.50	15.6	7.11	696	29	5.2	<100	10.8	NM	10.8	16.7	<1.0	1.7	51.4	8.0	<1.0	<1.0	<1.0			
	11/4/2010	27.97	725.81	15.0	7.13	743	48	6.8	<100	<5	NM	NM	10.7	<1.0	1.6	51.3	4.3	<1.0	<1.0	<1.0			
	11/29/2010	28.44	725.34	14.7	7.15	721	62	7.1	<100	<5	NM	NM	11.2	<1.0	1.6	4							

Table 2
Long Term Monitoring Wells on Warner Property - Data Summary
Former Warner Facility
Roscoe, Illinois

Well	Date	Field Parameters							Inorganics				Volatile Organic Compounds						
		Water Depth	Water Elev.	Sample Temp.	pH	Spec. Cond.	ORP	Dis. Oxygen	Total Chrome	Dis. Iron	Dis. Manganese	Sulfate	1,1,1-TCA	1,1-DCA	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
		Feet	Ft. MSL	°C	Std. Units	µmhos/cm	mV	mg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Long Term Groundwater Clean-up Goal - All LTMW Wells⁽¹⁾																			
LTMW-01	3/11/2010	27.51	725.27	11.9	7.06	803	135	2.0	< 5.0	<100	NM	16.6	19.5	8.7	<2.5	395	2.8	<2.5	
	6/27/2010	27.10	725.68	13.3	6.45	724	11	3.6	< 5.0	NM	NM	14.1	6.6	<4.0	< 4.0	223	<4.0	<4.0	
	9/23/2010	27.10	725.68	15.1	7.04	717	44	2.0	< 0.44	NM	NM	22.1	7.4	<4.0	< 4.0	199	14.6	<4.0	
	12/22/2010	28.53	724.25	12.2	7.15	712	40	1.8	< 5.0	<100	5.4	13.3	19.7	9.1	<2.0	230	3.4	<2.0	
	3/16/2011	28.25	724.53	13.3	7.18	778	148	2.3	NM	NM	NM	16.7	3.6	< 0.9	< 0.96	119	2.6	< 0.36	
	7/6/2011	28.05	724.73	13.6	7.22	737	30	1.9	NM	NM	NM	15.6	4.4	< 0.45	< 0.48	115	< 0.89	< 0.18	
	9/22/2011	28.80	723.98	13.4	7.14	686	45	1.3	NM	NM	NM	25.6	4.4	< 0.45	< 0.48	98.4	< 0.89	< 0.18	
	9/22/2011	28.80	723.98	13.4	7.14	686	45	1.3	NM	NM	NM	25.1	4.3	< 0.45	< 0.48	97.9	< 0.89	< 0.18	
	12/21/2011	29.20	723.58	11.2	7.12	692	-41	2.7	NM	NM	NM	23.7	5.1	< 0.45	< 0.48	89.2	< 0.89	< 0.18	
	3/1/2012	29.67	723.11	11.5	7.22	761	98	4.0	< 2.4	NM	NM	20.8	3.4	< 0.45	< 0.48	50.2	< 0.89	< 0.18	
DUP-02	6/7/2012	29.91	722.87	13.1	7.31	760	-50	1.0	5.5	NM	NM	18	2.4	< 0.45	< 0.48	23	< 0.89	< 0.18	
	9/27/2012	31.62	721.16	12.7	7.17	718	6	1.9	< 2.4	NM	NM	22.9	3.2	< 0.45	0.72 J	23.9	< 0.89	< 0.18	
	12/21/2012	32.09	720.69	12.4	7.12	725	90	3.3	< 2.4	NM	NM	15.1	2.6	< 0.45	< 0.48	13.8	< 0.89	< 0.18	
	3/8/2013	31.47	721.31	11.2	7.22	707	175	3.6	< 1.4	NM	NM	10.2	2.1	< 0.45	< 0.48	18.2	< 0.89	< 0.18	
	5/21/2013	27.52	725.26	13.8	7.18	706	131	3.6	< 1.4	NM	NM	10.4	1.2	< 0.47	< 0.43	5.1	< 0.37	< 0.18	
	8/29/2013	26.84	725.94	16.0	7.19	715	96	3.6	< 1.4	NM	NM	7.2	0.92 J	< 0.47	< 0.43	4.1	< 0.37	< 0.18	
	12/12/2013	28.87	723.91	10.7	7.16	671	126	4.0	< 1.4	NM	NM	3.4	0.42 J	< 0.47	< 0.36	2.9	< 0.37	< 0.18	
	3/11/2014	29.44	723.34	10.8	7.21	737	-84	2.7	< 1.4	NM	NM	9.3	0.75 J	< 0.47	< 0.36	4.1	< 0.37	< 0.18	
	6/24/2014	28.05	724.73	14.4	7.15	841	31	0.2	< 1.5	NM	NM	32.8	3.5	< 0.50	< 0.33	12.7	< 0.26	< 0.18	
	9/23/2014	28.28	724.50	14.7	7.19	766	71	0.2	< 1.5	NM	NM	22.5	2.4	< 0.50	0.40 J	9.3	< 0.26	< 0.18	
LTMW-02	3/11/2010	27.33	725.14	12.0	7.15	766	166	7.0	< 5.0	<100	NM	16.6	<1.0	<1.0	<1.0	26.8	7.3	<1.0	<1.0
	6/27/2010	26.83	725.64	13.9	6.71	672	25	10.7	< 5.0	NM	NM	<1.0	<1.0	<1.0	16.1	<1.0	<1.0	<1.0	
	9/23/2010	26.83	725.64	14.7	7.21	734	99	6.1	< 0.44	NM	NM	<1.0	<1.0	<1.0	10.1	2.5	<1.0	<1.0	
	12/22/2010	28.27	724.20	10.9	7.25	726	16	5.6	< 0.44	<100	<5.0	15.7	<1.0	<1.0	<1.0	15.1	3.3	<1.0	<1.0
	3/17/2011	27.97	724.50	13.0	7.29	756	158	3.7	NM	NM	NM	< 0.9	< 0.75	< 0.45	14.5	3.5	< 0.89	< 0.18	
	7/6/2011	27.80	724.67	15.1	7.27	752	39	3.0	NM	NM	NM	< 0.9	< 0.75	< 0.45	13.7	3.8	< 0.89	< 0.18	
	9/22/2011	28.54	723.93	13.0	7.21	710	53	3.9	NM	NM	NM	< 0.9	< 0.75	< 0.45	13.8	2.2	< 0.89	< 0.18	
	12/21/2011	28.95	723.52	11.6	7.25	689	-25	4.3	NM	NM	NM	< 0.9	< 0.75	< 0.45	10	1.8	< 0.89	< 0.18	
	3/1/2012	29.41	723.06	10.1	7.32	723	105	4.0	< 2.4	NM	NM	< 0.9	< 0.75	< 0.45	9.3	< 0.83	< 0.89	< 0.18	
	6/6/2012	29.64	722.83	12.8	7.21	733	15	3.0	< 2.4	NM	NM	< 0.9	< 0.75	< 0.45	10	< 0.83	< 0.89	< 0.18	
DUP-02	6/6/2012	29.64	722.83	12.8	7.21	733	15	3.0	< 2.4	NM	NM	< 0.9	< 0.75	< 0.45	8.9	< 0.83	< 0.89	< 0.18	
	9/28/2012	31.37	721.10	12.0	7.19	700	183	4.1	< 2.4	NM	NM	< 0.90	< 0.75	< 0.45	8.4	< 0.83	< 0.89	< 0.18	
	12/21/2012	31.81	720.66	11.8	7.19	697	126	5.3	< 2.4	NM	NM	< 0.90	< 0.75	< 0.45	8.0	< 0.83	< 0.89	< 0.18	
	3/8/2013	31.20	721.27	11.3	7.25	694	200	6.2	< 1.4	NM	NM	< 0.90	< 0.75	< 0.45	7.0	< 0.83	< 0.89	< 0.18	
	5/21/2013	27.23	725.24	13.1	7														

Table 2
Long Term Monitoring Wells on Warner Property - Data Summary
Former Warner Facility
Roscoe, Illinois

Well	Date	Field Parameters							Inorganics				Volatile Organic Compounds						
		Water Depth	Water Elev.	Sample Temp.	pH	Spec. Cond.	ORP	Dis. Oxygen	Total Chrome	Dis. Iron	Dis. Manganese	Sulfate	1,1,1-TCA	1,1-DCA	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
		Feet	Ft. MSL	°C	Std. Units	µmhos/cm	mV	mg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Long Term Groundwater Clean-up Goal - All LTMW Wells⁽¹⁾																			
LTMW-03	3/11/2010	27.16	725.03	11.8	7.19	673	141	7.0	< 5.0	<100	NM	25.2	<1.0	<1.0	<1.0	52.8	57.3	<1.0	<1.0
	6/25/2010	26.79	725.40	13.6	8.85	769	15	7.0	< 5.0	NM	NM	NM	<1.0	<1.0	<1.0	107	76	<1.0	<1.0
DUP-01	9/21/2010	26.62	725.57	15.9	6.86	683	72	3.3	< 5.0	NM	NM	NM	<1.0	<1.0	<1.0	151	66.2	<1.0	<1.0
	9/21/2010	26.62	725.57	15.9	6.86	683	72	3.3	< 5.0	NM	NM	NM	<1.0	<1.0	<1.0	153	64.9	<1.0	<1.0
	12/22/2010	28.10	724.09	9.7	7.22	694	36	4.6	< 5.0	<100	<5.0	18.0	<1.0	<1.0	<1.0	143	85.9	<1.0	<1.0
	3/17/2011	27.80	724.39	13.3	7.26	707	120	2.4	NM	NM	NM	NM	<0.9	<0.75	<0.45	109	30.1	<0.89	<0.18
	7/6/2011	27.59	724.60	16.6	7.30	740	43	5.9	NM	NM	NM	NM	<0.9	<0.75	<0.45	77.8	86.6	<0.89	<0.18
	9/22/2011	28.36	723.83	12.9	7.21	692	38	6.4	NM	NM	NM	NM	<0.9	<0.75	<0.45	84.8	73.9	1.1	1.3
	12/21/2011	28.80	723.39	11.3	7.17	719	-46	4.8	NM	NM	NM	NM	<0.9	1.5	<0.45	123	116	<0.89	1.4
	3/6/2012	29.21	722.98	11.3	7.25	756	-9	2.0	5.4	NM	NM	NM	<0.9	1.3	<0.45	103	102	<0.89	1.4
	6/6/2012	29.44	722.75	14.4	7.17	752	-30	3.0	5.6	NM	NM	NM	<0.9	1.1	<0.45	69.2	91.5	<0.89	<0.18
	9/28/2012	31.18	721.01	12.4	7.21	675	13	1.5	< 2.4	NM	NM	NM	<0.9	1.2	<0.45	84.5	55.3	<0.89	10
	12/20/2012	31.62	720.57	10.0	7.15	727	86	1.9	< 2.4	NM	NM	NM	<0.9	1.3	<0.45	92.8	80.7	<0.89	2.3
	3/8/2013	31.00	721.19	10.4	7.29	655	36	0.5	< 1.4	NM	NM	NM	<0.9	<0.75	<0.45	59.9	31.2	<0.89	6
	5/21/2013	27.00	725.19	13.5	7.21	689	57	0.9	2.7 J	NM	NM	NM	<0.44	<0.28	<0.47	73.6	37.9	<0.89	2.6
	8/29/2013	26.42	725.77	14.8	7.18	645	133	8.3	< 1.4	NM	NM	NM	<0.44	<0.28	<0.47	66.8	45.8	<0.89	<0.18
	9/30/2013	27.29	724.90	14.0	7.26	588	154	7.3	1.9 J	NM	NM	NM	<0.44	0.34 J	<0.47	50.4	20.6	<0.37	0.26 J
	10/23/2013	27.76	724.43	11.6	7.69	567	90	7.7	1.8 J	NM	NM	NM	<0.44	<0.28	<0.47	39.6	15.6	<0.37	<0.18
	11/25/2013	28.15	724.04	10.3	7.39	479	39	5.1	1.9 J	NM	NM	NM	<0.44	<0.28	<0.47	32.1	16	<0.37	<0.18
	12/12/2013	28.43	723.76	8.6	7.46	486	-8	4.0	2.2 J	NM	NM	NM	<0.44	<0.28	<0.47	29.4	14.4	<0.37	1.6
	12/12/2013	28.43	723.76	8.6	7.46	486	-8	4.0	< 1.4	NM	NM	NM	<0.44	<0.28	<0.47	27.7	12.8	<0.37	1.5
	3/13/2014	28.83	723.36	9.8	7.42	679	-88	2.1	< 1.4	NM	NM	NM	<0.44	<0.28	<0.47	5.6	26.5	<0.37	<0.18
	6/26/2014	27.60	724.59	14.9	7.41	655	-122	1.3	< 1.5	NM	NM	NM	<0.50	<0.24	<0.50	4.9	31	0.34 J	3.6
	9/25/2014	27.88	724.31	13.8	7.51	595	-120	1.6	< 1.5	NM	NM	NM	<0.50	<0.24	<0.50	6.6	15	<0.26	11.2
LTMW-03A	3/11/2010	27.55	724.97	11.9	7.07	863	153	5.0	< 5.0	<100	NM	20.1	<2.0	<2.0	<2.0	275	53.1	2.2	<2.0
	6/25/2010	27.15	725.37	13.5	6.81	926	14	7.1	< 5.0	NM	NM	NM	<2.0	<2.0	<2.0	167	30.8	<2.0	<2.0
	9/21/2010	27.03	725.49	15.8	6.73	770	90	3.8	9.2	NM	NM	NM	<2.0	<2.0	<2.0	56.6	8	<2.0	<2.0
	12/22/2010	28.48	724.04	10.1	7.28	684	14	1.3	< 5.0	<100	<5.0	13.2	<1.0	<1.0	<1.0	33.9	6.5	<1.0	<1.0
	3/17/2011	28.17	724.35	12.9	7.37	682	-31	0.1	NM	NM	NM	NM	<0.9	<0.75	<0.45	10.2	15.9	<0.89	<0.18
	7/6/2011	27.99	724.53	15.9	7.48	674	-101	0.4	NM	NM	NM	NM	<0.9	<0.75	<0.45	1.4	55.5	<0.89	5.3
	9/22/2011	28.74	723.78	12.5	7.46	623	-101	1.8	NM	NM	NM	NM	<0.9	<0.75	<0.45	2.2	15.2	<0.89	10.2
	12/21/2011	29.10	723.42	11.4	7.40	656	-122	1.9	NM	NM	NM	NM	<0.9	<0.75	<0.45	2.5	2.4	<0.89	4.7
	3/6/2012	29.61	722.91	11.4	7.46	727	-37	0.2	< 2.4	NM	NM	NM	<0.9	<0.75	<0.45	2.6	1.4	<0.89	4.7
	6/6/2012	29.83	722.69	14.1	7.37	736	-76	0.3	< 2.4	NM	NM	NM	<0.9	<0.75	<0.45	2.8	1.8	<0.89	5.5
	9/28/2																		

Table 3
Long Term Monitoring Wells on Hononegah Road - Data Summary
Former Warner Facility
Roscoe, Illinois

Well	Date	Field Parameters								Inorganics				Volatile Organic Compounds								
		Water Depth	Well Elev.	Water Elev.	Sample Temp.	pH	Spec. Cond.	ORP	Dis. Oxygen	Total Chrome	Dis. Iron	Dis. Manganese	Nitrate	Sulfate	1,1,1-TCA	1,1-DCA	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	
		Feet	Ft. MSL	°C	Std. Units	µmhos/cm	mV	mg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L		
Long Term Groundwater Clean-up Goal - All LTMW Wells ⁽¹⁾								100		200		200		5		5		70		100	2	
Non-potable Intermediate Groundwater Cleanup Criteria ⁽²⁾																1,900		6,100				
LTMW-04	3/12/2010	30.14	748.50	718.36	11.7	7.35	995	86	4.0	11.9	216	NM ⁽³⁾	NM	20.8	<1.0 ⁽⁴⁾	<1.0	<1.0	3.0	1.2	<1.0	<1.0	
	6/24/2010	29.60		718.90	13.6	6.84	866	12	6.9	7.6	NM	NM	NM	<1.0	<1.0	<1.0	3.7	1.6	<1.0	<1.0		
	9/22/2010	29.80		718.70	13.4	7.31	806	13	5.8	10.4	NM	NM	NM	1.1	<1.0	<1.0	3.5	1.0	<1.0	<1.0		
	12/22/2010	30.75		717.75	10.4	7.25	821	-6	4.4	42.1	164	139	NM	21.6	<1.0	<1.0	2.5	<1.0	<1.0	<1.0		
	3/15/2011	30.23		718.27	11.5	7.32	873	62	6.8	NM	NM	NM	NM	<0.9	<0.75	<0.45	3.5	1.4	<0.89	<0.18		
	7/5/2011	30.45		718.05	13.0	7.37	832	27	7.9	NM	NM	NM	NM	<0.9	<0.75	<0.45	3.7	2.5	<0.89	<0.18		
	9/21/2011	31.30		717.20	13.3	7.24	802	16	8.1	NM	NM	NM	NM	<0.9	<0.75	<0.45	3.4	2.0	<0.89	<0.18		
	12/22/2011	31.25		717.25	10.8	7.26	804	-29	6.3	NM	NM	NM	NM	1.0	<0.75	<0.45	4.5	4.8	<0.89	<0.18		
DUP-02	12/22/2011	31.25		717.25	10.8	7.26	804	-29	6.3	NM	NM	NM	NM	<0.9	<0.75	<0.45	4.6	4.6	<0.89	<0.18		
	3/1/2012	31.72		716.78	10.9	7.34	871	70	5.0	6.8	NM	NM	NM	<0.9	<0.75	<0.45	5.7 ⁽⁵⁾	5.2	<0.89	<0.18		
	6/6/2012	31.73		716.77	12.5	7.3	866	26	5.0	5.6	NM	NM	NM	<0.9	<0.75	<0.45	6.4	5.8	<0.89	<0.18		
	9/26/2012	33.58		714.92	14.1	7.28	825	159	6.5	<2.4	NM	NM	NM	1.0 J	<0.75	<0.45	7.1	8	<0.89	<0.18		
DUP-01	9/26/2012	33.58		714.92	14.1	7.28	825	159	6.5	<2.4	NM	NM	NM	1.0	<0.75	<0.45	7.1	8.1	<0.89	<0.18		
	12/19/2012	33.55		714.95	11.6	7.35	844	148	7.3	<2.4	NM	NM	NM	<0.9	<0.75	<0.45	8.2	7.8	<0.89	<0.18		
DUP-01	12/19/2012	33.55		714.95	11.6	7.35	844	148	7.3	<2.4	NM	NM	NM	<0.9	<0.75	<0.45	7.9	7.7	<0.89	<0.18		
DUP-01	3/8/2013	32.59		715.91	11.3	7.25	1287	180	5.3	3.8 J	NM	NM	NM	<0.9	<0.75	<0.45	8	7.1	<0.89	<0.18		
DUP-01	3/8/2013	32.59		715.91	11.3	7.25	1287	180	5.3	3.0 J	NM	NM	NM	<0.9	<0.75	<0.45	8.3	8.4	<0.89	<0.18		
DUP-01	5/21/2013	28.75		719.75	13.8	7.26	807	117	5.8	2.9 J	NM	NM	NM	1.1	<0.28	<0.47	11.5	9.5	<0.37	<0.18		
DUP-01	5/21/2013	28.75		719.75	13.8	7.26	807	117	5.8	2.9 J	NM	NM	NM	1.1	<0.28	<0.47	11.7	9.4	<0.37	<0.18		
DUP-01	8/27/2013	29.94		718.56	15.6	7.29	831	116	6.2	<1.4	NM	NM	NM	1.0	<0.28	<0.47	8.6	5.6	<0.37	<0.18		
DUP-01	8/27/2013	29.94		718.56	15.6	7.29	831	116	6.2	2.8 J	NM	NM	NM	1.1	<0.28	<0.47	8.7	5.7	<0.37	<0.18		
DUP-01	12/10/2013	31.32		717.18	10.1	7.32	818	87	6.3	1.8 J	NM	NM	NM	1.2	<0.28	<0.47	7.9	6.3	<0.37	<0.18		
DUP-01	12/10/2013	31.32		717.18	10.1	7.32	818	87	6.3	2.9 J	NM	NM	NM	1.0	<0.28	<0.47	7.2	5.8	<0.37	<0.18		
DUP-01	3/11/2014	31.62		716.88	9.4	7.29	1610	-90	5.7	5.9	NM	NM	NM	0.81 J	<0.28	<0.47	7.5	5.5	<0.37	<0.18		
DUP-01	3/11/2014	31.62		716.88	9.4	7.29	1610	-90	5.7	6.1	NM	NM	NM	0.77 J	<0.28	<0.47	7.6	5.6	<0.37	<0.18		
DUP-01	6/24/2014	30.10		718.40	14.5	7.29	881	123	5.6	2.3 J	NM	NM	NM	0.86 J	<0.24	<0.50	9.6	8.7	<0.26	<0.18		
DUP-01	6/24/2014	30.10		718.40	14.5	7.29	881	123	5.6	<1.5	NM	NM	NM	0.84 J	<0.24	<0.50	8.8	8.9	<0.26	<0.18		
DUP-01	9/23/2014	30.89		717.61	12.3	7.37	838	75	5.6	<1.5	NM	NM	NM	0.75 J	<0.24	<0.50	9.4	8.6	<0.26	<0.18		
DUP-01	9/23/2014	30.89		717.61	12.3	7.37	838	75	5.6	<1.5	NM	NM	NM	0.65 J	<0.24	<0.50	9.3	8.5	<0.26	<0.18		
LTMW-05	3/12/2010	30.92	749.35	718.43	11.7	7.24	811	108	5.0	14.5	<3.7	NM	NM	19.8	<0.9	<0.75	<0.45	12.3	6.2	<0.89	<0.18	
	6/24/2010	30.40		718.95	13.3	6.92	895	14	6.4	8.9	NM	NM	NM	1.1	<0.75	<0.45	10.9	5.3	<0.89	<0.18		
	9/22/2010	NM	NM	NM	NM	NM	NM	NM	11.2	NM	NM	NM	NM	1.5	<0.75	<0.45	9.2	4.0	<0.89	<0.18		
	12/22/2010	31.59		717.76	10.6	7.28	797	70	5.1	8.4	<1											

Table 3
Long Term Monitoring Wells on Hononegah Road - Data Summary
Former Warner Facility
Roscoe, Illinois

Well	Date	Field Parameters								Inorganics					Volatile Organic Compounds							
		Water Depth	Well Elev.	Water Elev.	Sample Temp.	pH	Spec. Cond.	ORP	Dis. Oxygen	Total Chrome	Dis. Iron	Dis. Manganese	Nitrate	Sulfate	1,1,1-TCA	1,1-DCA	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	
		Feet	Ft. MSL	°C	Std. Units	µmhos/cm	mV	mg/L	µg/L	µg/L	µg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
		Long Term Groundwater Clean-up Goal - All LTMW Wells ⁽¹⁾								100					200	200	5	5	70	100	2	
		Non-potable Intermediate Groundwater Cleanup Criteria ⁽²⁾																1,900	6,100			
LTMW-06	3/12/2010	31.80	749.95	718.15	11.7	7.23	949	94	7.0	< 0.32	<100	NM	NM	17.4	<1.0	<1.0	<1.0	40.4	14.0	<1.0	<1.0	
	6/25/2010	31.28		718.67	14.1	6.75	1030	20	7.8	< 5.0	NM	NM	NM	NM	<1.0	<1.0	<1.0	35.4	13.0	<1.0	<1.0	
	9/22/2010	31.50		718.45	13.5	7.19	857	41	5.7	7.0	NM	NM	NM	NM	<1.0	<1.0	<1.0	33.2	9.5	<1.0	<1.0	
	12/22/2010	32.40		717.55	10.4	7.27	864	71	5.7	11	<100	7.7	NM	17.1	<1.0	<1.0	<1.0	28.1	9.9	<1.0	<1.0	
	3/16/2011	31.88		718.07	12.0	7.27	1180	151	8.4	NM	NM	NM	NM	<0.9	<0.75	<0.45	32	7.3	<0.89	<0.18		
	7/5/2011	32.12		717.83	13.6	7.32	1121	70	9.2	NM	NM	NM	NM	<0.9	<0.75	<0.45	20.1	5.6	<0.89	<0.18		
	9/21/2011	32.96		716.99	12.8	7.21	939	74	9.9	NM	NM	NM	NM	<0.9	<0.75	<0.45	26.8	7.5	<0.89	<0.18		
	12/22/2011	32.90		717.05	9.9	7.14	1449	12	7.9	NM	NM	NM	NM	<0.9	<0.75	<0.45	28	9.3	<0.89	<0.18		
	3/1/2012	33.34		716.61	11.0	7.77	937	89	5.0	< 2.4	NM	NM	NM	NM	<0.9	<0.75	<0.45	22	11.5	<0.89	<0.18	
	6/6/2012	33.34		716.61	13.2	7.33	902	59	4.0	6.6	NM	NM	NM	NM	4.3	<0.75	<0.45	29.3	15.0	<0.89	<0.18	
	9/27/2012	35.20		714.75	13.7	7.24	919	185	7.7	< 2.4	NM	NM	NM	NM	<0.9	<0.75	<0.45	40.4	26.7	<0.89	<0.18	
	12/19/2012	35.13		714.82	11.2	7.26	1305	176	8.7	< 2.4	NM	NM	NM	NM	<0.9	<0.75	<0.45	40.5	17.6	<0.89	<0.18	
	3/7/2013	34.13		715.82	9.5	7.32	8772	191	7.6	1.7 J	NM	NM	NM	NM	<0.9	<0.75	<0.45	34.4	19.6	<0.89	<0.18	
	5/20/2013	30.40		719.55	14.2	7.31	914	100	3.3	< 1.4	NM	NM	NM	NM	<0.44	<0.28	<0.47	32	16.9	<0.37	<0.18	
	8/27/2013	31.63		718.32	15.8	7.30	900	196	7.1	2.5 J	NM	NM	NM	NM	<0.44	<0.28	<0.47	38.6	16.9	<0.37	<0.18	
	12/10/2013	32.95		717.00	9.6	7.25	1442	131	8.1	1.9 J	NM	NM	NM	NM	<0.44	<0.28	<0.47	41.9	20.4	<0.37	<0.18	
	3/11/2014	33.21		716.74	10.0	7.33	941	-98	7.7	< 1.4	NM	NM	NM	NM	<0.44	<0.28	<0.47	28.3	13.7	<0.37	<0.18	
	6/24/2014	31.72		718.23	16.9	7.30	977	129	7.2	2.4 J	NM	NM	NM	NM	<0.50	0.34 J	<0.50	32.9	24.7	<0.26	<0.18	
	9/23/2014	32.54		717.41	14.4	7.39	915	38	6.8	1.6 J	NM	NM	NM	NM	<0.50	<0.24	<0.50	33.5	25.2	<0.26	<0.18	
LTMW-07 DUP-02 DUP-01	3/12/2010	31.97	750.07	718.10	11.8	7.26	819	-19	5.0	18.8	<100	NM	NM	19.9	<1.0	<1.0	<1.0	14.1	9.1	<1.0	<1.0	
	3/12/2010	31.97		718.10	11.8	7.26	819	-19	5.0	20.0	<100	NM	NM	19.9	<1.0	<1.0	<1.0	14.4	8.9	<1.0	<1.0	
	6/25/2010	31.47		718.60	12.6	6.84	915	17	8.0	42.9	NM	NM	NM	NM	<1.0	<1.0	<1.0	15.5	9.7	<1.0	<1.0	
	9/22/2010	31.72		718.35	13.6	7.23	802	58	4.8	54.8	NM	NM	NM	NM	<1.0	<1.0	<1.0	19.3	10.6	<1.0	<1.0	
	12/22/2010	32.57		717.50	10.3	7.3	804	68	5.3	35.7	<100	6.7	NM	20	<1.0	<1.0	<1.0	14.4	10.7	<1.0	<1.0	
	3/16/2011	32.05		718.02	12.3	7.33	858	140	6.6	NM	NM	NM	NM	<0.9	<0.75	<0.45	12.0	7.8	<0.89	<0.18		
	3/16/2011	32.05		718.02	12.3	7.33	858	140	6.6	NM	NM	NM	NM	<0.9	<0.75	<0.45	11.9	7.6	<0.89	<0.18		
	7/6/2011	32.36		717.71	12.7	7.42	848	39	7.5	NM	NM	NM	NM	<0.9	<0.75	<0.45	11.1	8	<0.89	<0.18		
	9/21/2011	33.12		716.95	12.2	7.24	848	80	8.2	NM	NM	NM	NM	<0.9	<0.75	<0.45	11.5	5.8	<0.89	<0.18		
	12/22/2011	33.04		717.03	9.6	7.26	835	17	6.2	NM	NM	NM	NM	<0.9	<0.75	<0.45	7.5	4.8	<0.89	<0.18		
	3/1/2012	33.51		716.56	10.4	7.29	919	95	5.0	34.2	NM	NM	NM	NM	<0.9	<0.75	<0.45	5.7	3.4	<0.89	<0.18	
	6/6/2012	33.52		716.55	12.7	7.27	928	61	4.0	31.5	NM	NM	NM	NM	4	<0.75	<0.45	4.9	2.2	<0.89	<0.18	
	9/27/2012	35.38		714.69																		

Table 4
Long Term Monitoring Wells on Edgemere Terrace - Data Summary
Former Warner Facility
Roscoe, Illinois

Well	Date	Field Parameters							Inorganics				Volatile Organic Compounds							
		Water Depth	Water Elev.	Sample Temp.	pH	Spec. Cond.	ORP	Dis. Oxygen	Total Chrome	Dis. Iron	Dis. Manganese	Sulfate	1,1,1-TCA	1,1-DCA	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	
		Feet	Ft. MSL	°C	Std. Units	µmhos/cm	mV	mg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L		
		Long Term Clean-up Criteria - All LTMW Wells ⁽¹⁾							100				200	200	5	5	70	100	2	
		Surface Water Discharge Intermediate Clean-up Criteria ⁽²⁾							42				76	47	45	25	620	970	120	
LTMW-08	3/8/2010	17.73	711.43	10.4	7.17	718	25	6.4	5.2	<100 ⁽⁴⁾	160	NM	<1.0	<1.0	<1.0	1.2	<1.0	<1.0	<1.0	
	6/23/2010	16.08	713.08	13.1	6.80	930	12	8.5	< 5.0	NM ⁽³⁾	NM	NM	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	
	DUP-01	6/23/2010	16.08	713.08	13.1	6.80	930	12	8.5	< 5.0	NM ⁽³⁾	NM	NM	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<1.0
	9/21/2010	17.42	711.74	14.6	7.21	781	31	5.4	34.7	NM	NM	NM	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	12/22/2010	17.04	712.12	10.3	7.31	775	49	7.3	67.5	<100	14.1	21.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	3/15/2011	16.34	712.82	10.8	7.34	828	99	7.0	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	1.1	< 0.83	< 0.89	< 0.18	
	6/30/2011	17.66	711.50	13.2	7.27	803	49	8.7	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	1.2	< 0.83	< 0.89	< 0.18	
	DUP-01	9/21/2011	18.75	710.41	13.1	7.24	785	55	9.4	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	1.0	< 0.83	< 0.89	< 0.18
	DUP-01	9/21/2011	18.75	710.41	13.1	7.24	785	55	9.4	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	1.1	< 0.83	< 0.89	< 0.18
	DUP-01	12/20/2011	17.63	711.53	10.7	7.03	793	133	7.9	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	1.4	< 0.83	< 0.89	< 0.18
DUP-01	12/20/2011	17.63	711.53	10.7	7.03	793	133	7.9	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	1.4	< 0.83	< 0.89	< 0.18	
	2/28/2012	18.43	710.73	9.6	7.19	861	100	9.4	12.4	NM	NM	NM	< 0.9	< 0.75	< 0.45	1.3	< 0.83	< 0.89	< 0.18	
	6/5/2012	18.39	710.77	13.2	7.23	861	105	5.0	8.5	NM	NM	NM	< 0.9	< 0.75	< 0.45	1.2	< 0.83	< 0.89	< 0.18	
	6/5/2012	18.39	710.77	13.2	7.23	861	105	5.0	7.6	NM	NM	NM	< 0.9	< 0.75	< 0.45	1.4	< 0.83	< 0.89	< 0.18	
	9/26/2012	20.25	708.91	NA	7.27	825	183	5.5	< 2.4	NM	NM	NM	< 0.9	< 0.75	< 0.45	2	1.1	< 0.89	< 0.18	
	12/19/2012	19.61	709.55	10.8	7.28	832	194	6.5	< 2.4	NM	NM	NM	< 0.9	< 0.75	< 0.45	2.4	1.5	< 0.89	< 0.18	
	3/6/2013	18.52	710.64	7.8	7.32	807	166	5.8	2.2 J	NM	NM	NM	< 0.9	< 0.75	< 0.45	3.1	2.1	< 0.89	< 0.18	
	5/20/2013	15.02	714.14	13.5	7.30	764	-248	0.2	< 1.4	NM	NM	NM	< 0.44	< 0.28	< 0.47	1	< 0.42	< 0.37	< 0.18	
	8/26/2013	18.08	711.08	16.9	7.27	802	114	6.4	2.8 J	NM	NM	NM	0.56 J	< 0.28	< 0.47	1.5	< 0.42	< 0.37	< 0.18	
	12/9/2013	18.43	710.73	9.4	7.26	837	82	6.3	2.4 J	NM	NM	NM	0.61 J	< 0.28	< 0.44	2.1	0.96 J	< 0.37	< 0.18	
LTMW-09	3/10/2014	18.75	710.41	10.3	7.39	835	-154	5.9	2.5 J	NM	NM	NM	0.51 J	< 0.28	< 0.47	1.9	0.78 J	< 0.37	< 0.18	
	6/23/2014	16.15	713.01	13.8	7.30	906	108	6.6	2.3 J	NM	NM	NM	0.54 J	< 0.24	< 0.50	1.7	0.52 J	< 0.26	< 0.18	
	9/22/2014	18.41	710.75	14.0	7.35	863	60	6.5	< 1.5	NM	NM	NM	< 0.50	< 0.24	< 0.50	1.6	0.61 J	< 0.26	< 0.18	
	DUP-01	3/8/2010	18.12	711.19	11.1	6.41	797	58	2.0	< 5.0	<100	225	NM	1.1	<1.0	<1.0	9.3 ⁽⁵⁾	6.5	<1.0	<1.0
	DUP-01	3/8/2010	18.12	711.19	11.1	6.41	797	58	2.0	< 5.0	NM	NM	1.1	<1.0	<1.0	9.6 ⁽⁵⁾	6.4	<1.0	<1.0	
	DUP-01	6/24/2010	16.42	712.89	13.4	6.74	1080	18	3.4	< 5.0	NM	NM	1.1	<1.0	<1.0	7.7	3.4	<1.0	<1.0	
	DUP-01	9/21/2010	17.86	711.45	14.5	7.20	890	85	4.6	7.8	NM	NM	1.1	<1.0	<1.0	7.1	2.4	<1.0	<1.0	
	DUP-01	12/22/2010	17.45	711.86	10.7	7.30	891	71	5.9	14.1	<100	<5	18.3	<1.0	<1.0	5.4	2.8	<1.0	<1.0	
	DUP-01	3/15/2011	16.75	712.56	11.4	7.33	944	177	7.5	NM	NM	NM	< 0.9	< 0.75	< 0.45	6.8	2.9	< 0.89	< 0.18	
	DUP-01	7/1/2011	18.14	711.17	14.3	7.32	980	78	8.6	NM	NM	NM	1.0	< 0.75	< 0.45	6.4	1.9	< 0.89	< 0.18	
	DUP-01	9/21/2011	19.23	710.08	12.7	7.25	881	72	10.3	NM	NM	NM	< 0.9	< 0.75	< 0.45	6.4	1.6	< 0.89	< 0.18	
	DUP-01	12/20/2011	18.09	711.22	11.1	7.19	902	134	7.5	NM	NM	NM	< 0.9	< 0.75	< 0.45	6.1	2.5	< 0.89	< 0.18	
	DUP-01	2/29/2012	18.86	710.45	11.7	7.32	974	135	6.0	5.3	NM	NM	NM	< 0.9	< 0.75	< 0.45	5.			

Table 4
Long Term Monitoring Wells on Edgemere Terrace - Data Summary
Former Warner Facility
Roscoe, Illinois

Well	Date	Field Parameters							Inorganics				Volatile Organic Compounds							
		Water Depth	Water Elev.	Sample Temp.	pH	Spec. Cond.	ORP	Dis. Oxygen	Total Chrome	Dis. Iron	Dis. Manganese	Sulfate	1,1,1-TCA	1,1-DCA	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	
		Feet	Ft. MSL	°C	Std. Units	µmhos/cm	mV	mg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L		
		Long Term Clean-up Criteria - All LTMW Wells ⁽¹⁾							100				200	200	5	5	70	100	2	
		Surface Water Discharge Intermediate Clean-up Criteria ⁽²⁾							42				76	47	45	25	620	970	120	
LTMW-10	3/9/2010	14.80	711.28	11.2	7.24	1170	92	4.0	< 5.0	<100	27.1	NM	<1.0	<1.0	<1.0	21.9	12.4	<1.0	<1.0	
	6/24/2010	12.99	713.09	13.7	6.78	1150	16	8.7	< 5.0	NM	NM	1.4	<1.0	<1.0	<1.0	17.6	8.5	<1.0	<1.0	
	9/21/2010	14.40	711.68	14.9	7.17	927	66	5.2	16.5	NM	NM	1.5	<1.0	<1.0	<1.0	15.2	6.1	<1.0	<1.0	
	12/22/2010	14.01	712.07	9.9	7.26	1112	76	6.3	27.8	<100	5.5	19.4	<1.0	<1.0	<1.0	20.8	12	<1.0	<1.0	
	12/22/2010	14.01	712.07	9.9	7.26	1112	76	6.3	25.2	<100	<5	19.4	<1.0	<1.0	<1.0	19.0	9.6	<1.0	<1.0	
	3/15/2011	13.31	712.77	11.0	7.28	1175	176	7.3	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	21.4	10	< 0.89	< 0.18	
	7/1/2011	14.65	711.43	14.5	7.23	1029	77	8.8	NM	NM	NM	NM	1.3	< 0.75	< 0.45	16.4	4.4	< 0.89	< 0.18	
	9/21/2011	15.73	710.35	13.4	7.20	1033	74	8.8	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	23.4	9.8	< 0.89	< 0.18	
	12/20/2011	14.65	711.43	10.7	7.19	943	144	8.2	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	21.7	13.4	< 0.89	< 0.18	
	2/29/2012	15.37	710.71	11.2	7.27	1002	134	6.0	26.2	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	20.4	11.1	< 0.89	< 0.18
	6/5/2012	15.40	710.68	13.9	7.21	999	89	5.0	8.8	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	19.4	10.5	< 0.89	< 0.18
	9/26/2012	17.14	708.94	13.2	7.25	986	138	7.01	< 2.4	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	9.9	7.4	< 0.89	< 0.18
	12/19/2012	16.48	709.60	11.1	7.30	1003	175	8.5	< 2.4	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	7.4	5.1	< 0.89	< 0.18
	3/16/2013	15.50	710.58	8.4	7.32	946	158	7.5	3.0 J	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	6	2.7	< 0.89	< 0.18
	5/20/2013	12.22	713.86	14.7	7.26	969	176	7.8	5.9	NM	NM	NM	NM	< 0.44	< 0.28	< 0.47	14.9	7.7	< 0.37	< 0.18
	8/26/2013	15.15	710.93	15.4	7.27	1010	144	7.5	2.3 J	NM	NM	NM	NM	< 0.44	< 0.28	< 0.47	20.6	9	< 0.37	< 0.18
	12/9/2013	15.40	710.68	9.3	7.28	947	97	7.3	1.9 J	NM	NM	NM	NM	< 0.44	< 0.28	< 0.47	10	4.6	< 0.37	< 0.18
	3/10/2014	15.72	710.36	11.7	7.41	939	-144	6.9	1.8 J	NM	NM	NM	NM	< 0.44	< 0.28	< 0.47	7.1	3.1	< 0.37	< 0.18
	6/23/2014	13.11	712.97	16.0	7.28	1027	101	7.1	2.2 J	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	14.6	8.6	< 0.26	< 0.18
	9/22/2014	15.43	710.65	13.0	7.36	970	70	7.6	< 1.5	NM	NM	NM	NM	< 0.50	< 0.24	< 0.50	15.3	9.4	< 0.26	< 0.18
LTMW-11	3/9/2010	20.80	711.47	10.9	7.28	894	181	4.0	7.1	<100	35.7	NM	<1.0	<1.0	<1.0	12.6	9.6	<1.0	<1.0	
	6/23/2010	19.35	712.92	14.4	6.85	1170	12	7.4	< 5.0	NM	NM	NM	NM	< 1.0	< 1.0	< 1.0	18	11.3	< 1.0	< 1.0
	9/21/2010	20.72	711.55	13.5	7.19	943	93	5.2	5.7	NM	NM	NM	NM	< 1.0	< 1.0	< 1.0	20.4	9.2	< 1.0	< 1.0
	12/22/2010	20.30	711.97	10.0	7.29	836	65	5.4	9.7	<100	<5	19.2	<1.0	<1.0	<1.0	15.5	10.2	< 1.0	< 1.0	
	3/15/2011	19.62	712.65	11.3	7.31	885	177	5.9	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	15.8	8.9	< 0.89	< 0.18	
	7/5/2011	21.10	711.17	13.0	7.33	933	49	7.3	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	19.1	11.1	< 0.89	< 0.18	
	9/21/2011	21.98	710.29	13.0	7.23	808	76	7.2	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	16	7.7	< 0.89	< 0.18	
	12/20/2011	20.94	711.33	10.0	7.25	831	144	7.1	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	9.7	6.7	< 0.89	< 0.18	
	2/29/2012	21.62	710.65	11.7	7.27	917	130	7.0	7.3	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	8.9	4.9	< 0.89	< 0.18
	6/6/2012	21.70	710.57	12.4	7.33	924	13	4.0	6	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	8.1	4.3	< 0.89	< 0.18
	9/26/2012	23.39	708.88	12.9	7.27	904	154	6.5	< 2.4	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	4.1	1.8	< 0.89	< 0.18
	12/19/2012	22.72	709.55	11.0	7.33	938	181	7.4	< 2.4	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	2.1	< 0.83	< 0.89	< 0.18
	3/16/2013	21.79	710.48	8.5	7.32	937	177	6.8	1.7 J	NM	NM	NM	NM	< 0.9	< 0.75	< 0.45	1.4	< 0.83	< 0.89	< 0.18
	5/20/2013	18.53	713.74	14.1	6.81	131	34	0.2	< 1.4	NM	NM	NM	NM	< 0.44	< 0.28	< 0.47	1.1	0.52 J	< 0.37	< 0.18
	8/26/2013	21.40	710.87	14.0	7.30	910	168	6.8	< 1.4	NM	NM	NM	NM	< 0.44	< 0.28	< 0.47	10.9	4.6	< 0.37	< 0.18
	12/9/2013	21.56	710.71	5.8	7.31	895	123	6.												

Notes: (1) Maximum Concentration Level (MCL) promulgated under the Safe Drinking Water Act.

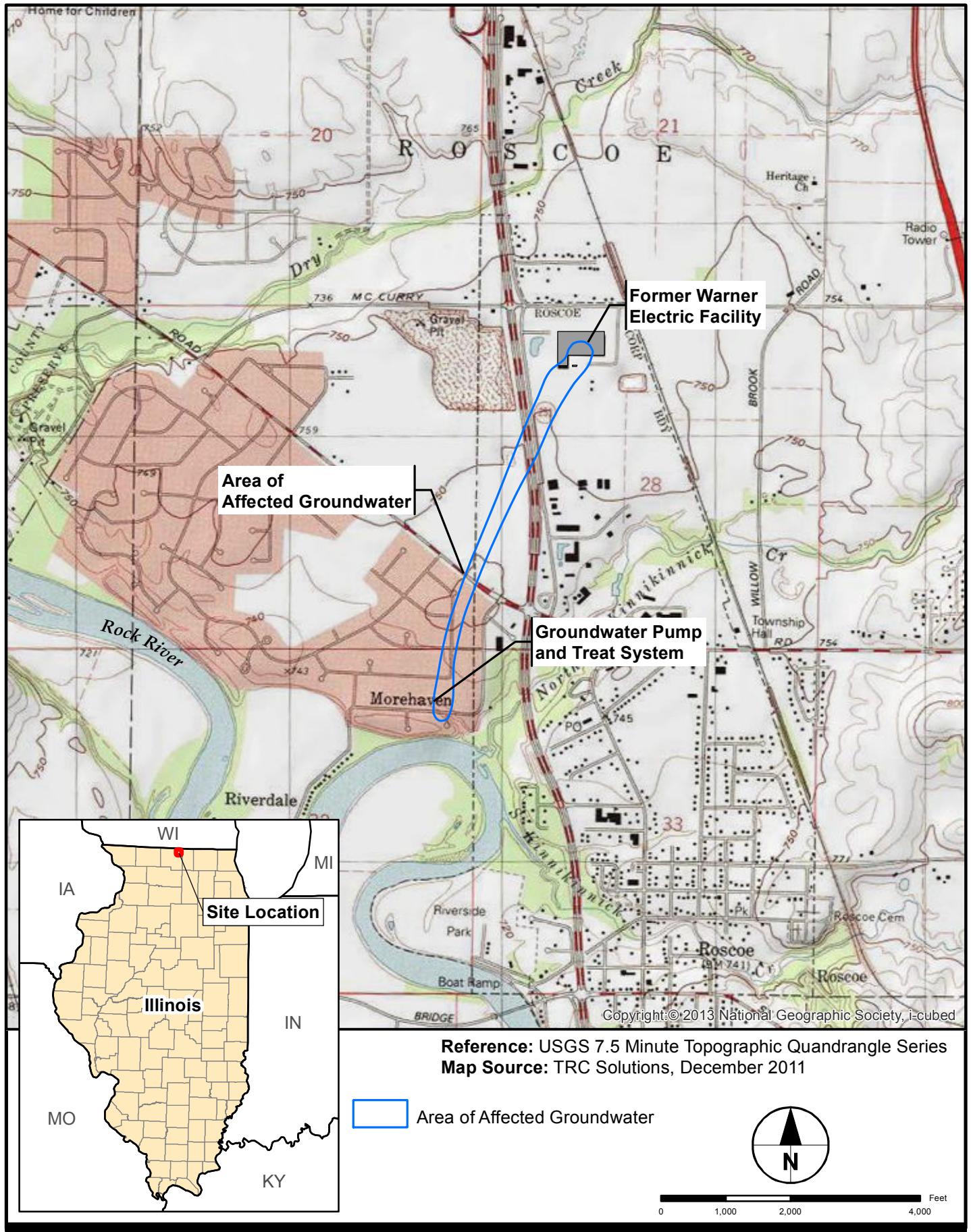
(2) Limit established in 2009 Workplan

(3) NM indicates not measured

(4) < indicates analyte was not detected above the listed concentration

(5) J indicates estimated concentration. Reported result is between the method detection limit and the practical quantitation limit.

(6) ***Blue bold and italic*** values exceed the Long Term Cleanup Criteria



Dana Corporation
Former Warner Electric Division
Roscoe, Illinois
Project No.: 60272149 Date: 2014-02-18

Site Location Map

AECOM

Figure: 1

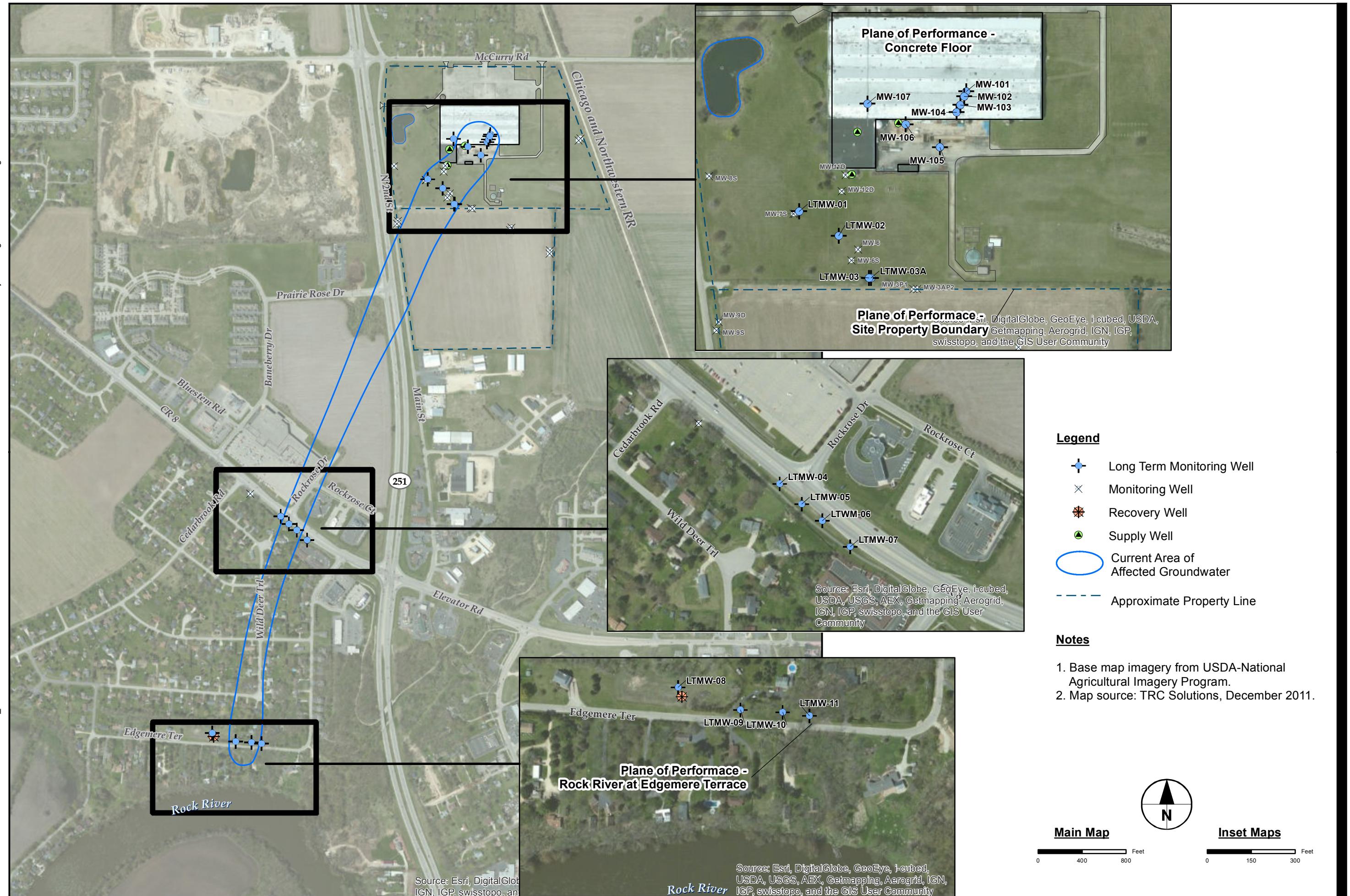


Figure 3
MW-101 CVOC Concentration Trend

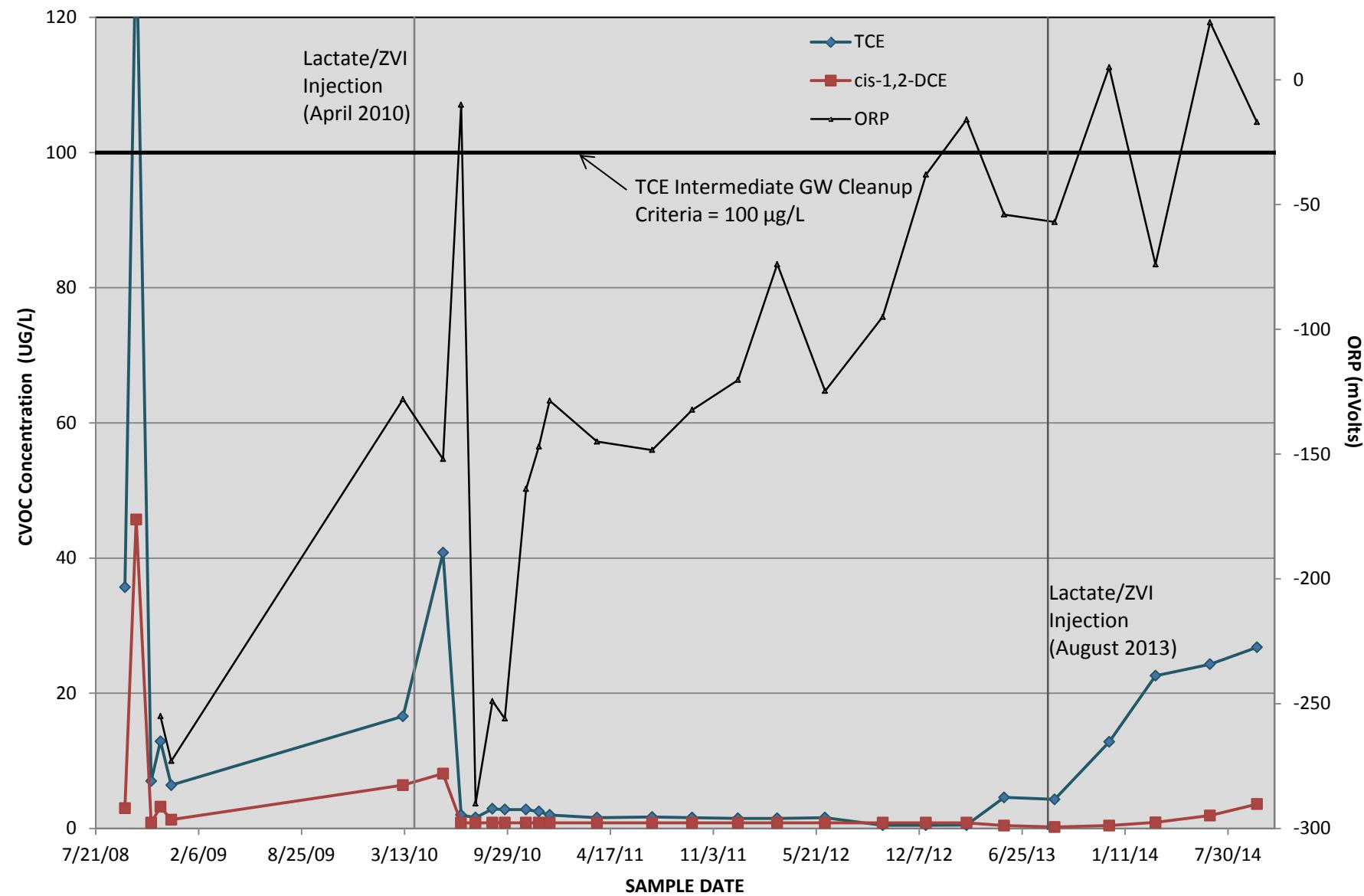


Figure 4
MW-102 CVOC Concentration Trend

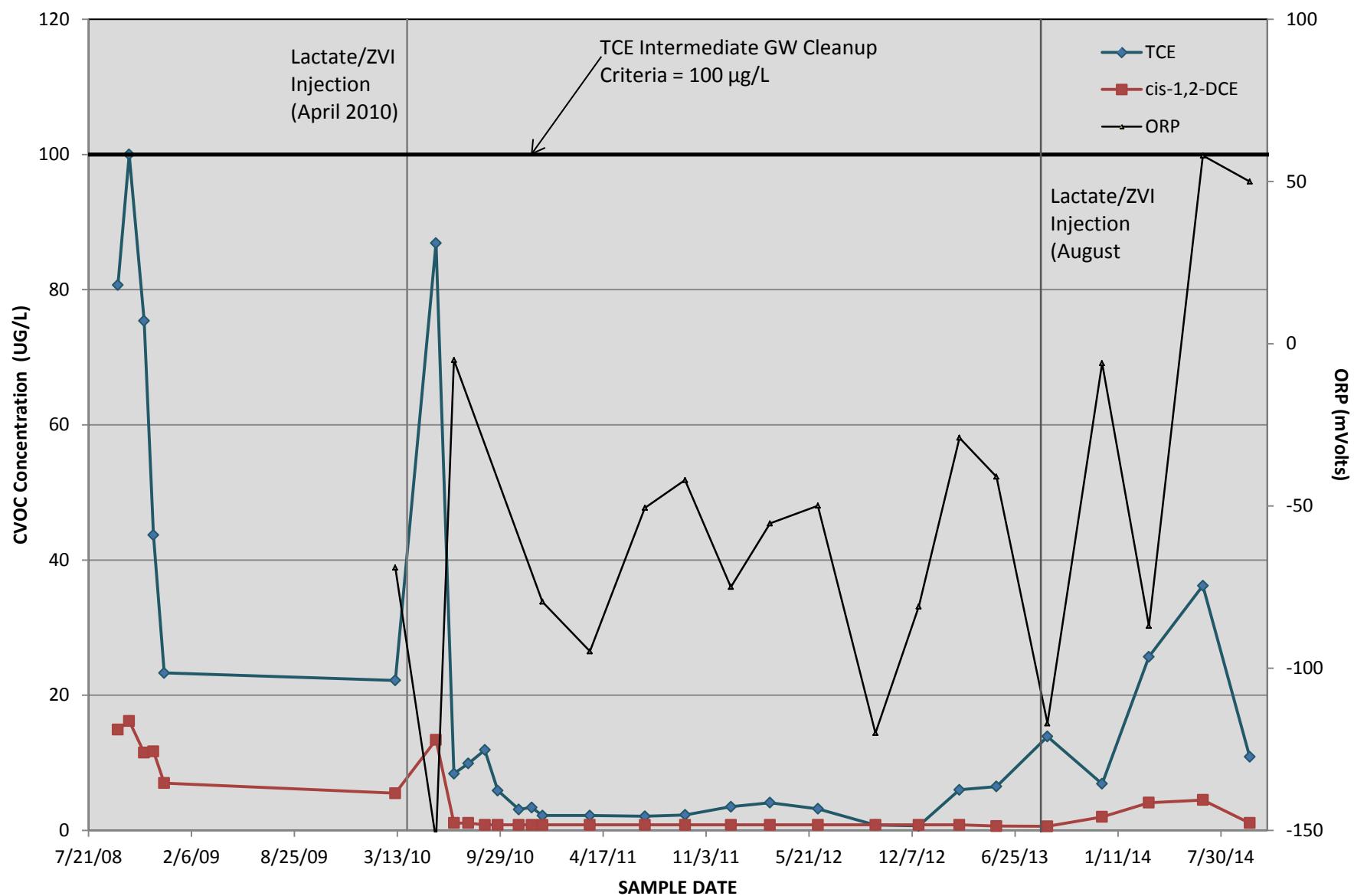


Figure 5
MW-103 CVOC Concentration Trend

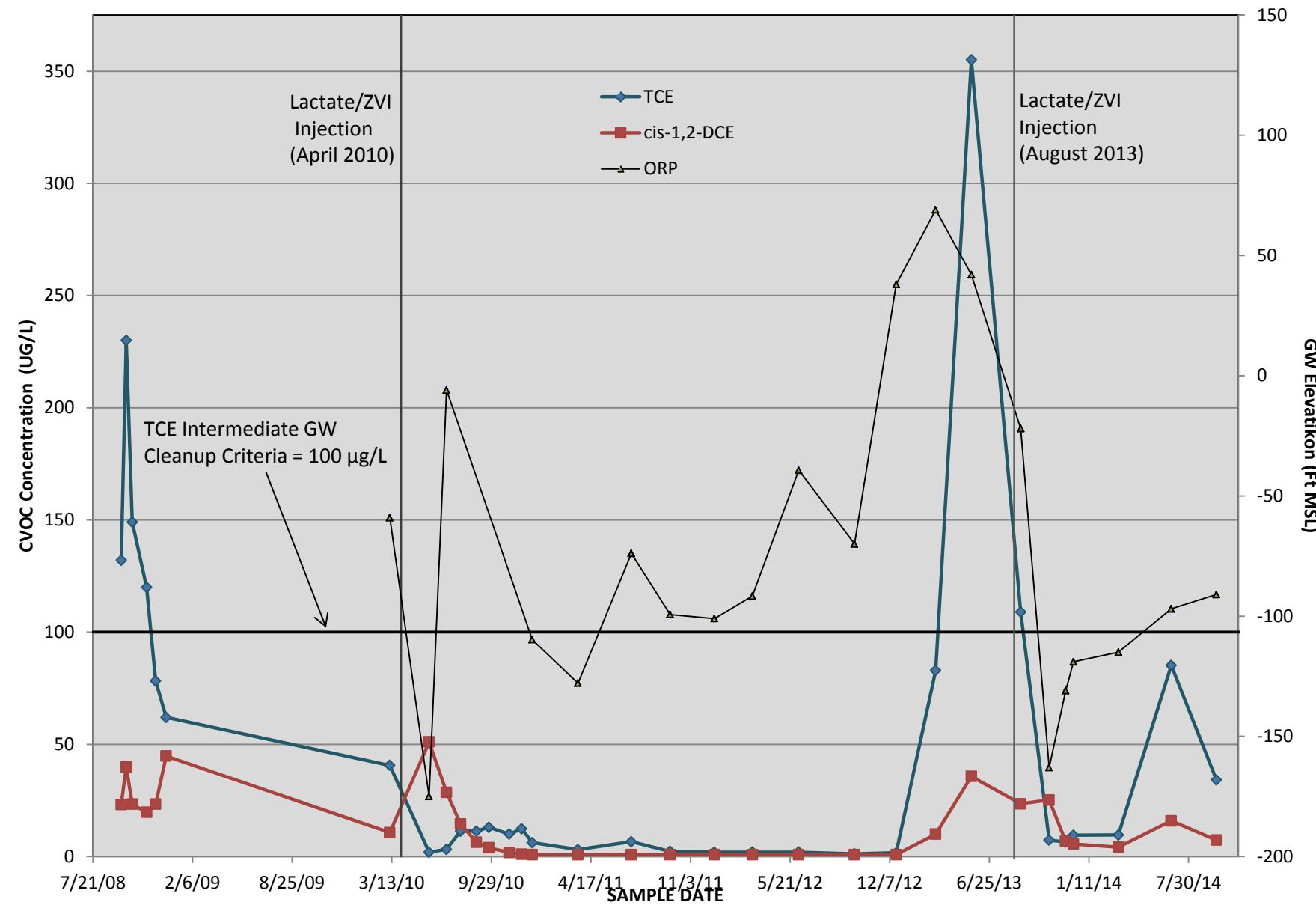


Figure 6
MW-104 CVOC Concentration Trend

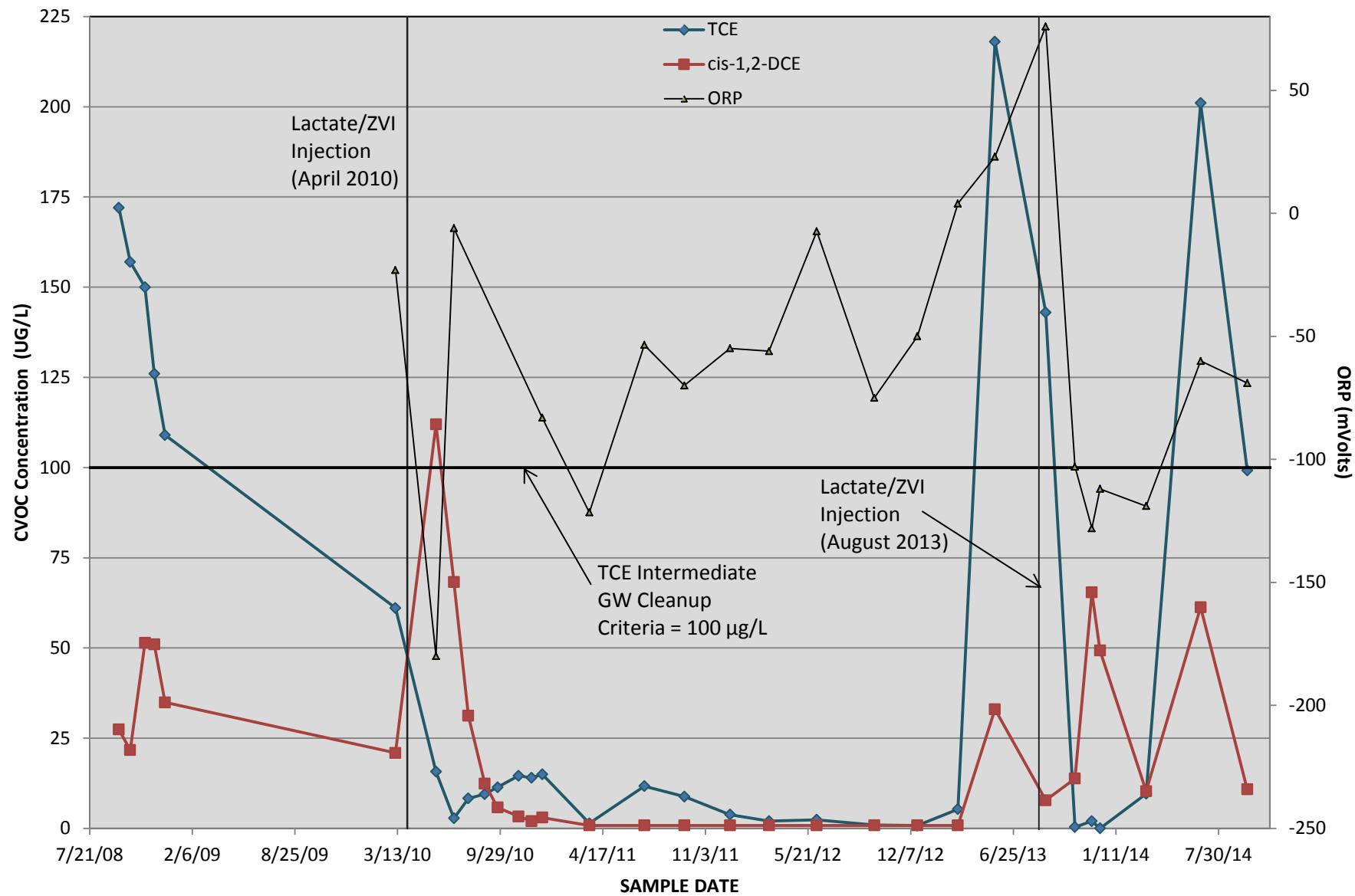


Figure 7
MW-105 CVOC Concentration Trend

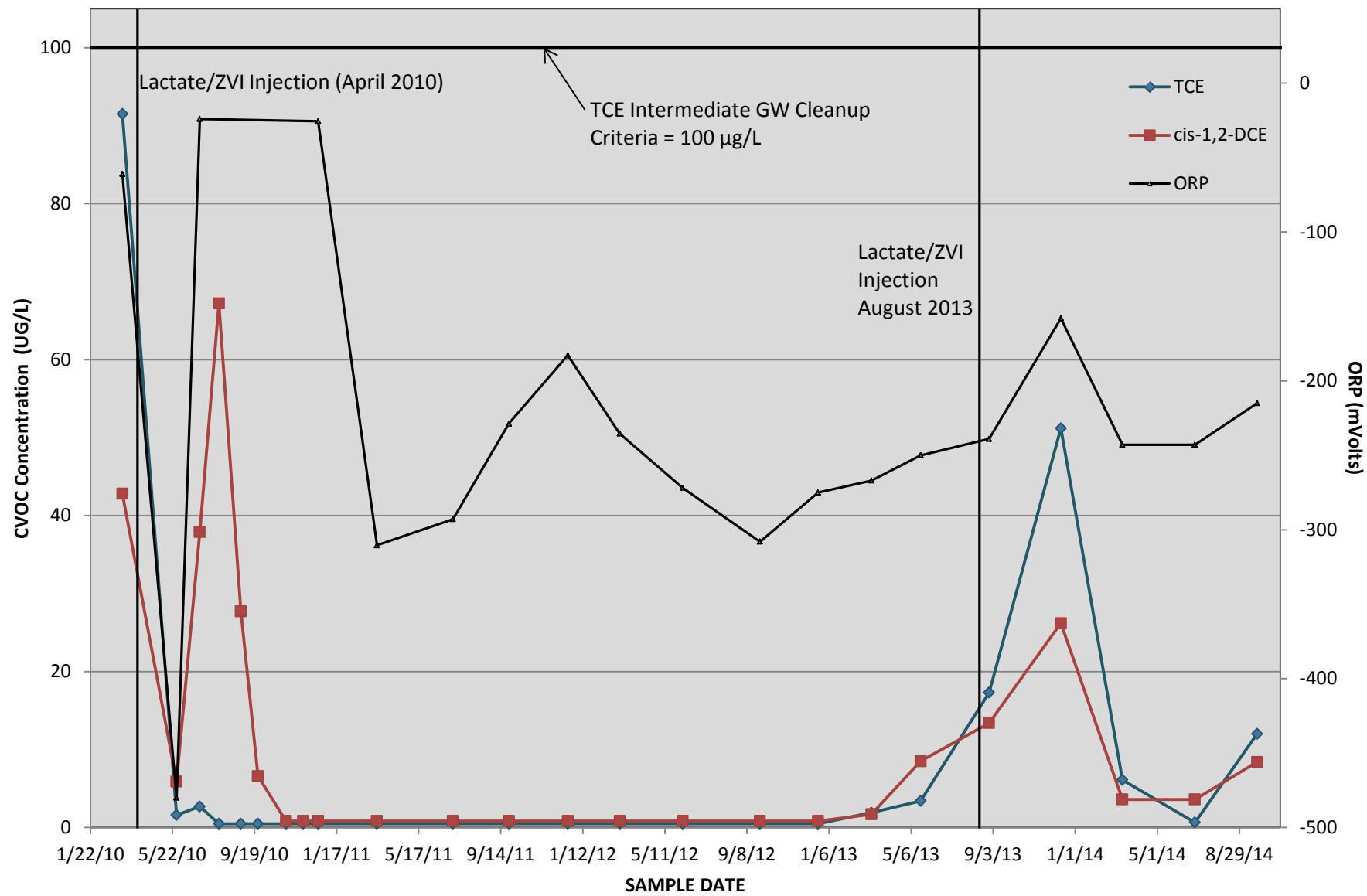


Figure 8
MW-106 CVOC Concentration Trend

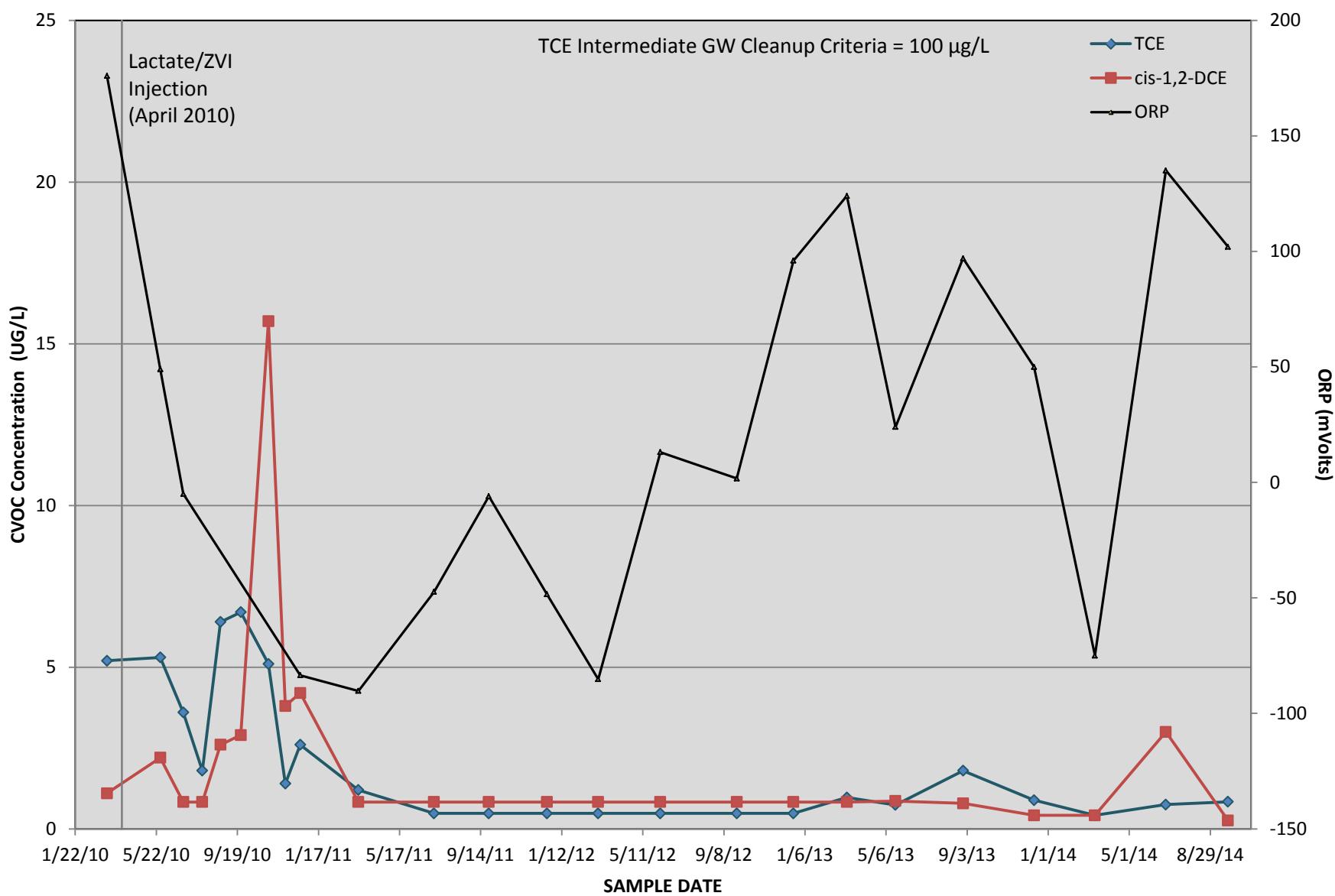


Figure 9
MW-107 CVOC Concentration

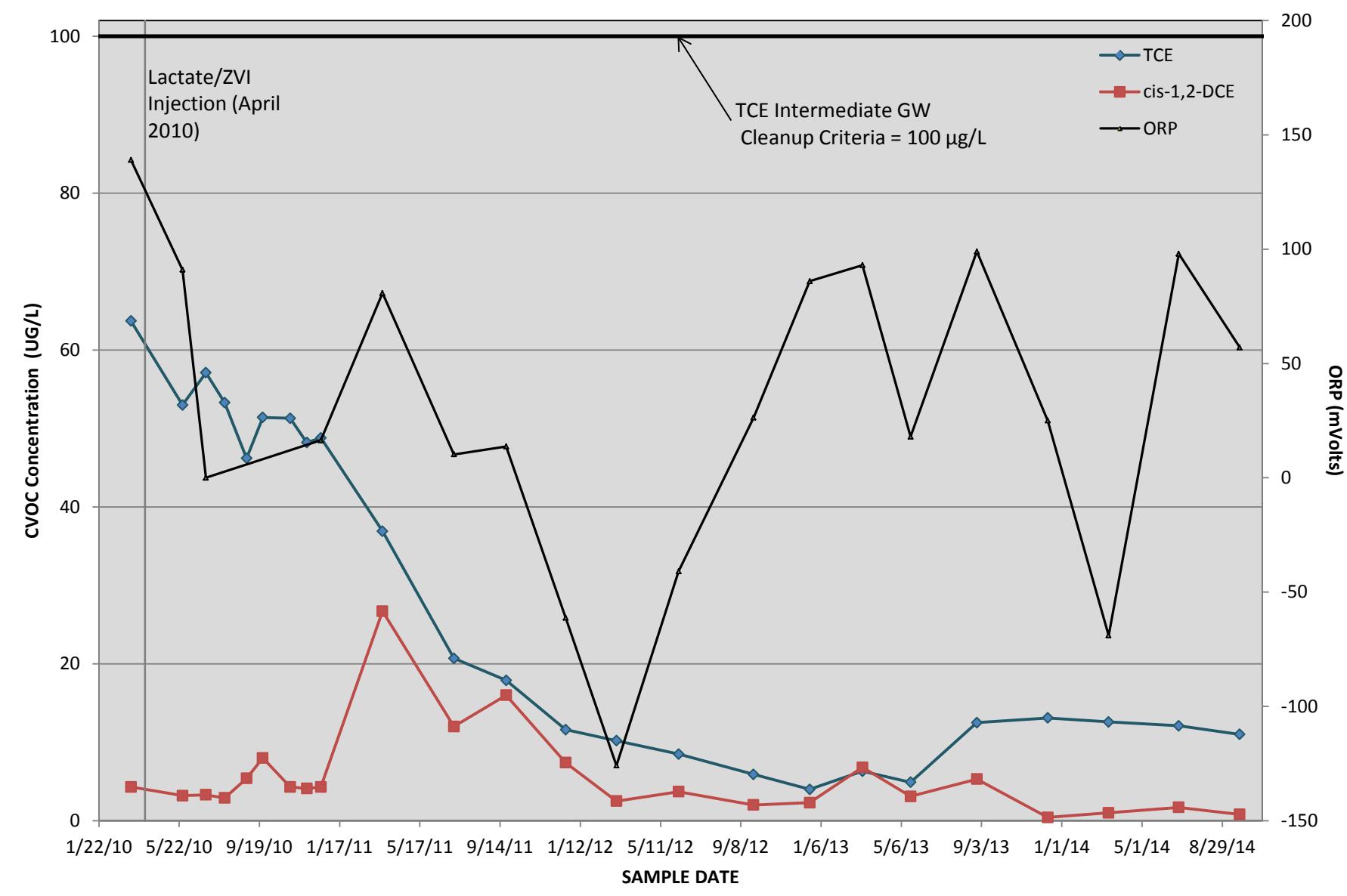


Figure 10
LTMW-01 CVOC Concentration Trend

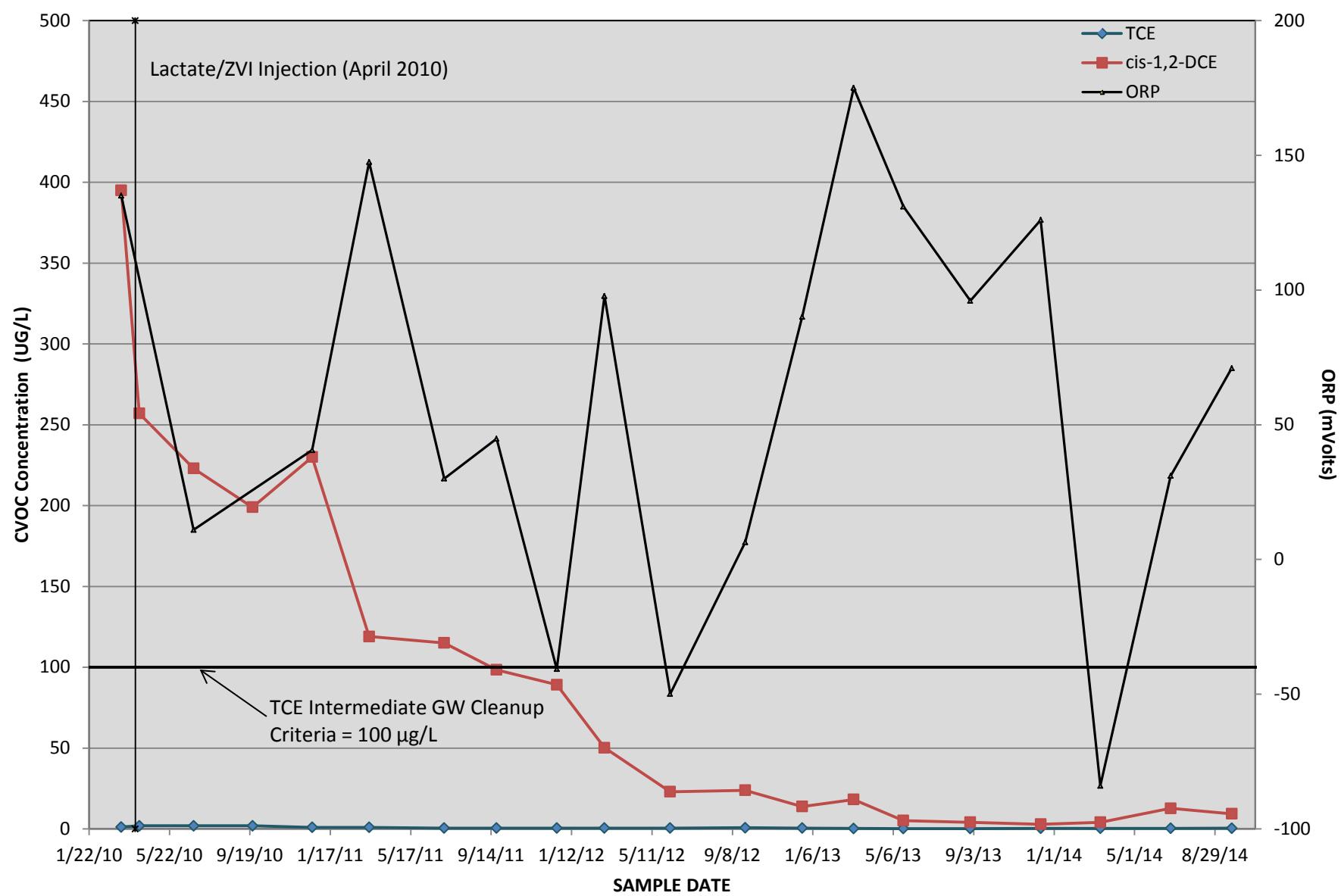


Figure 11
LTMW-02 CVOC Concentration Trend

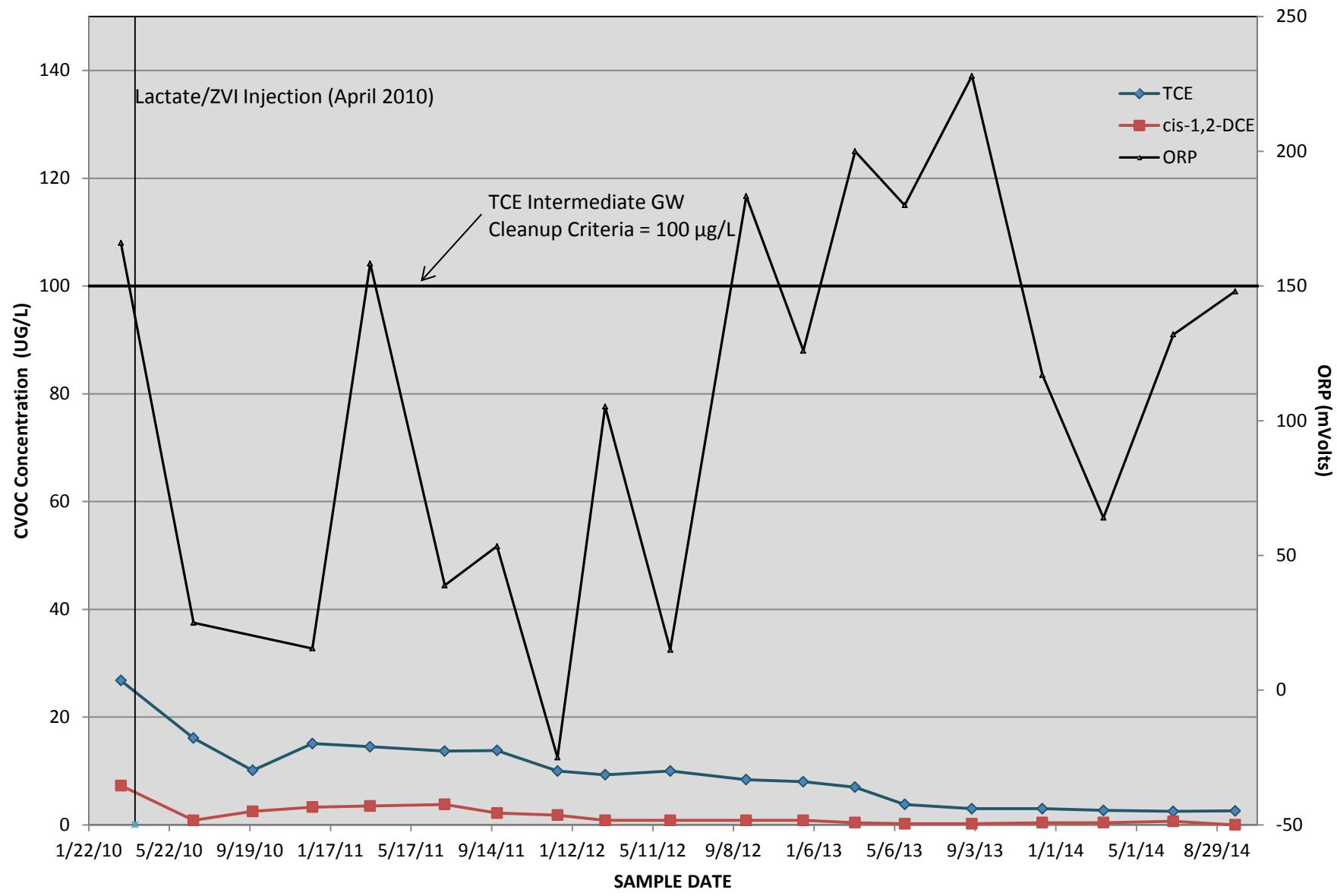


Figure 12
LTMW-03 CVOC Concentration Trend

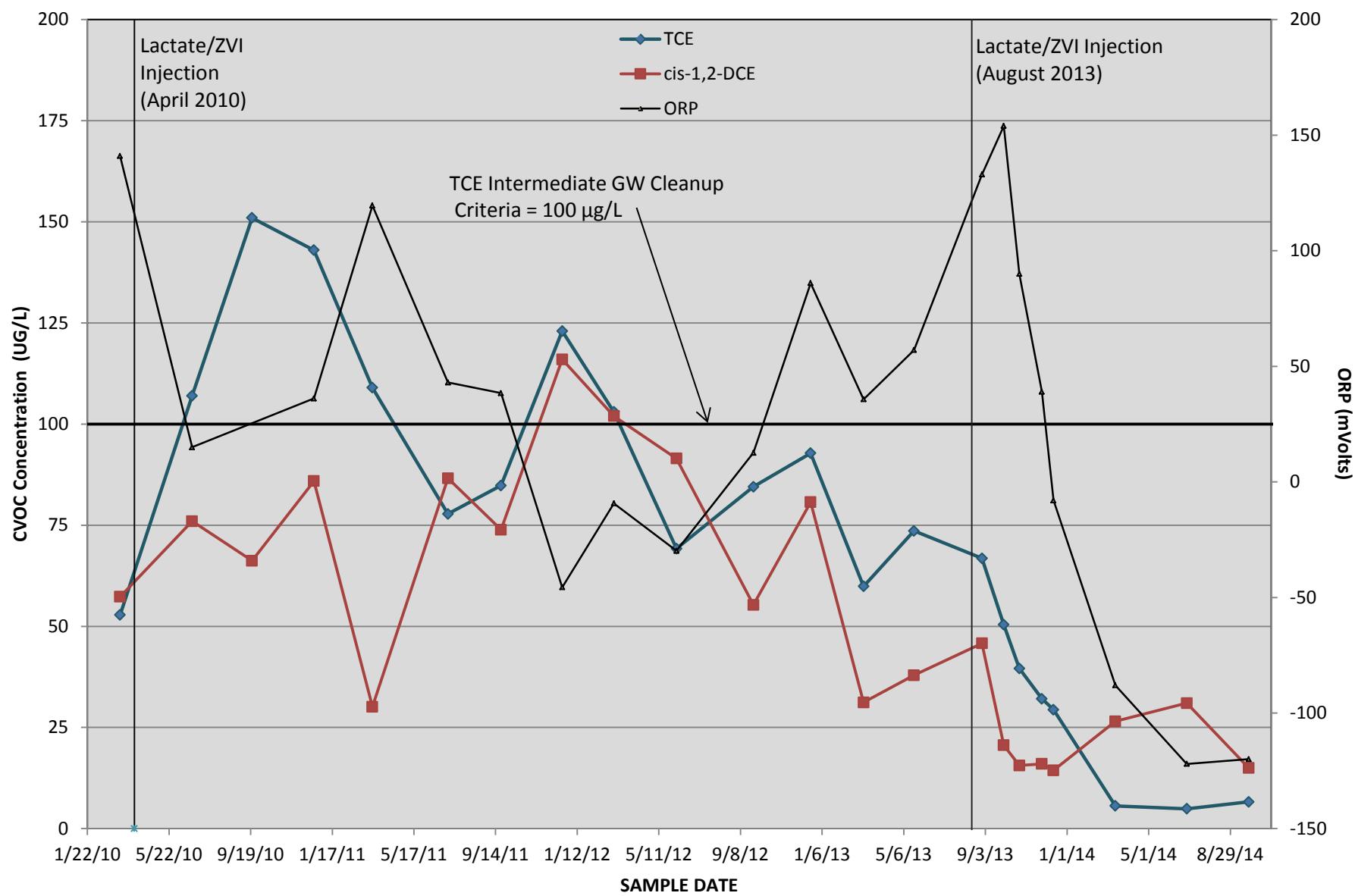


Figure 13
LTMW-03A Concentration Trend

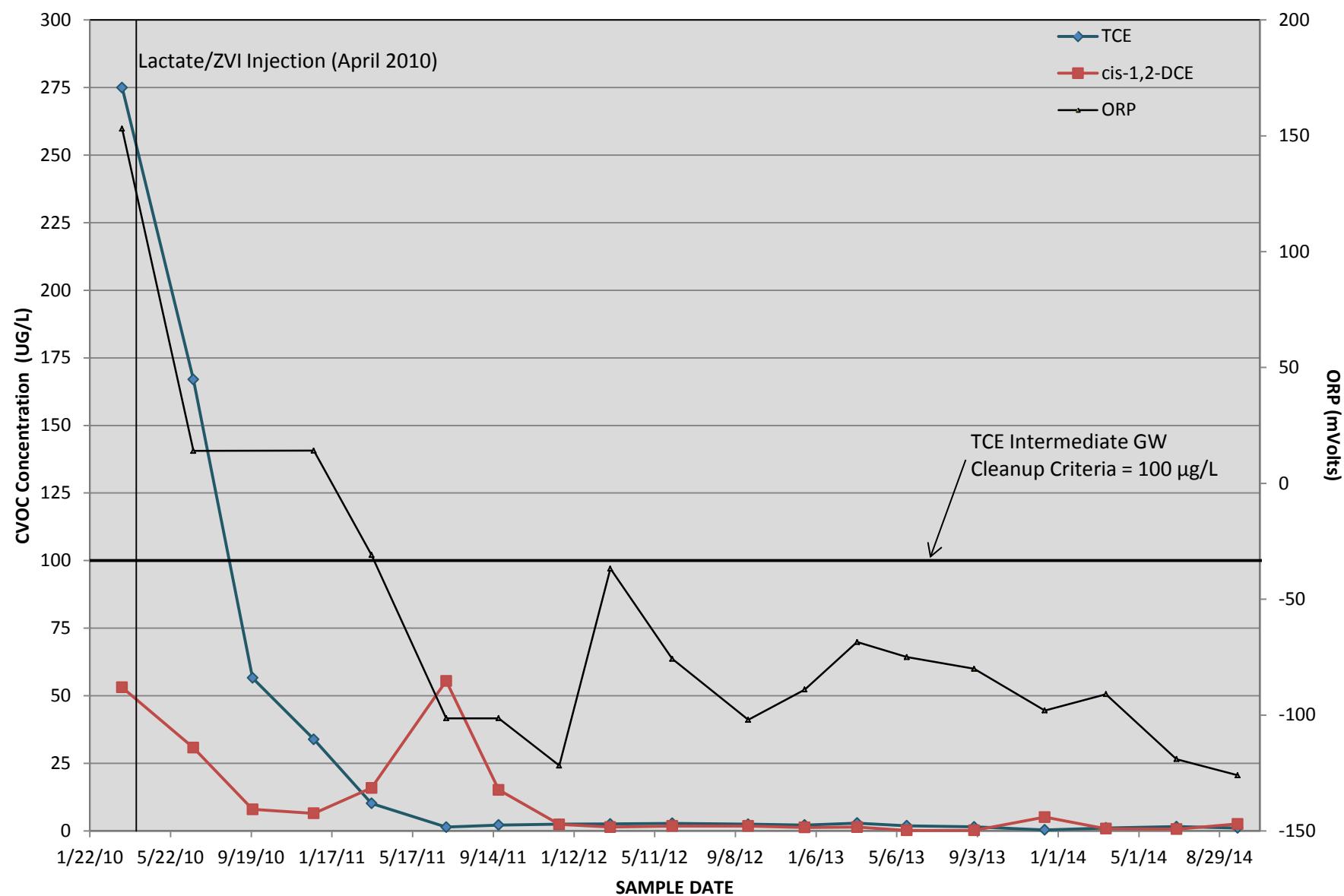


Figure 14
Long Term TCE Concentration Trend at Hononegah Road

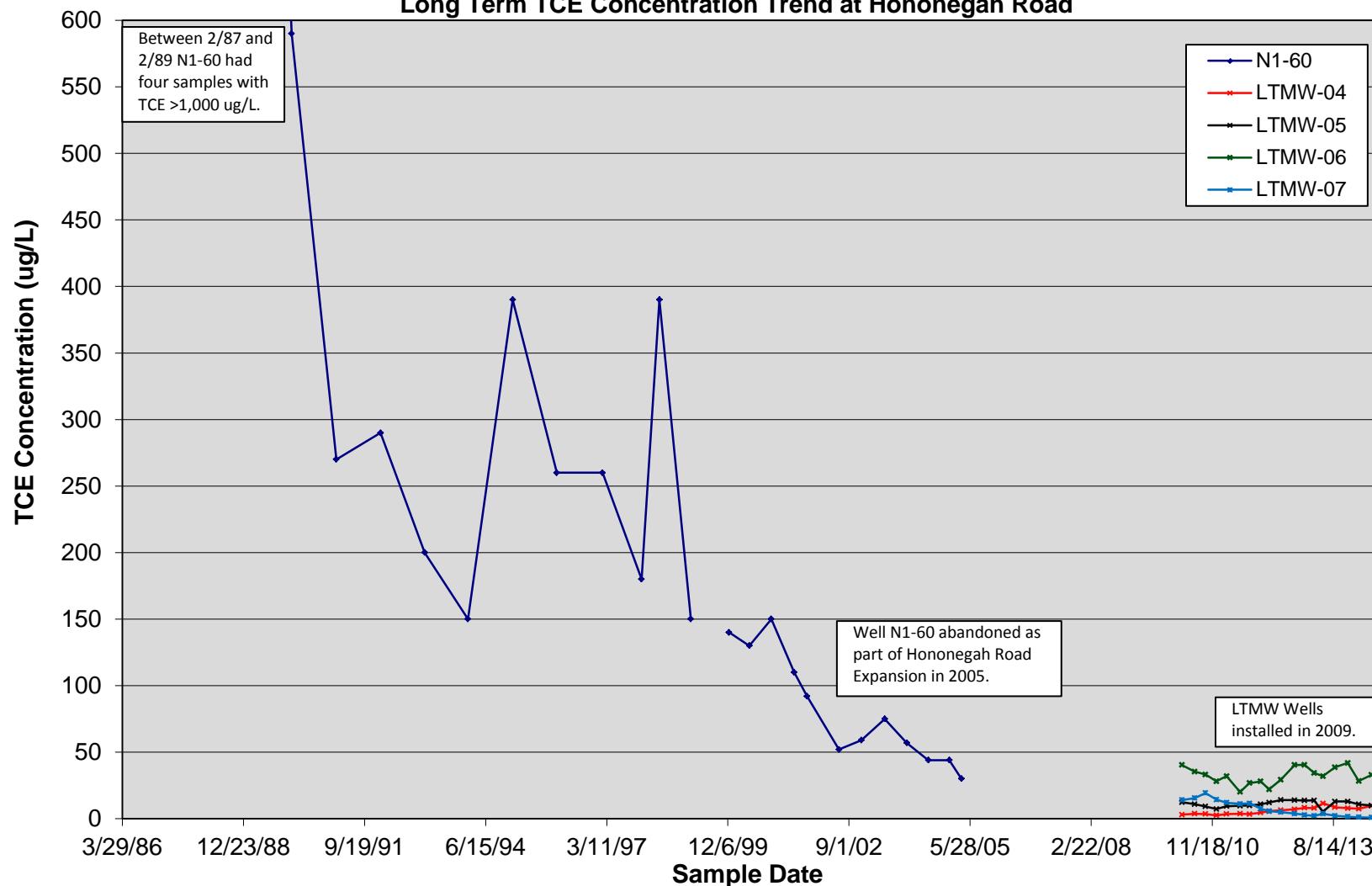


Figure 15
LTMW-04 CVOC Concentration Trend

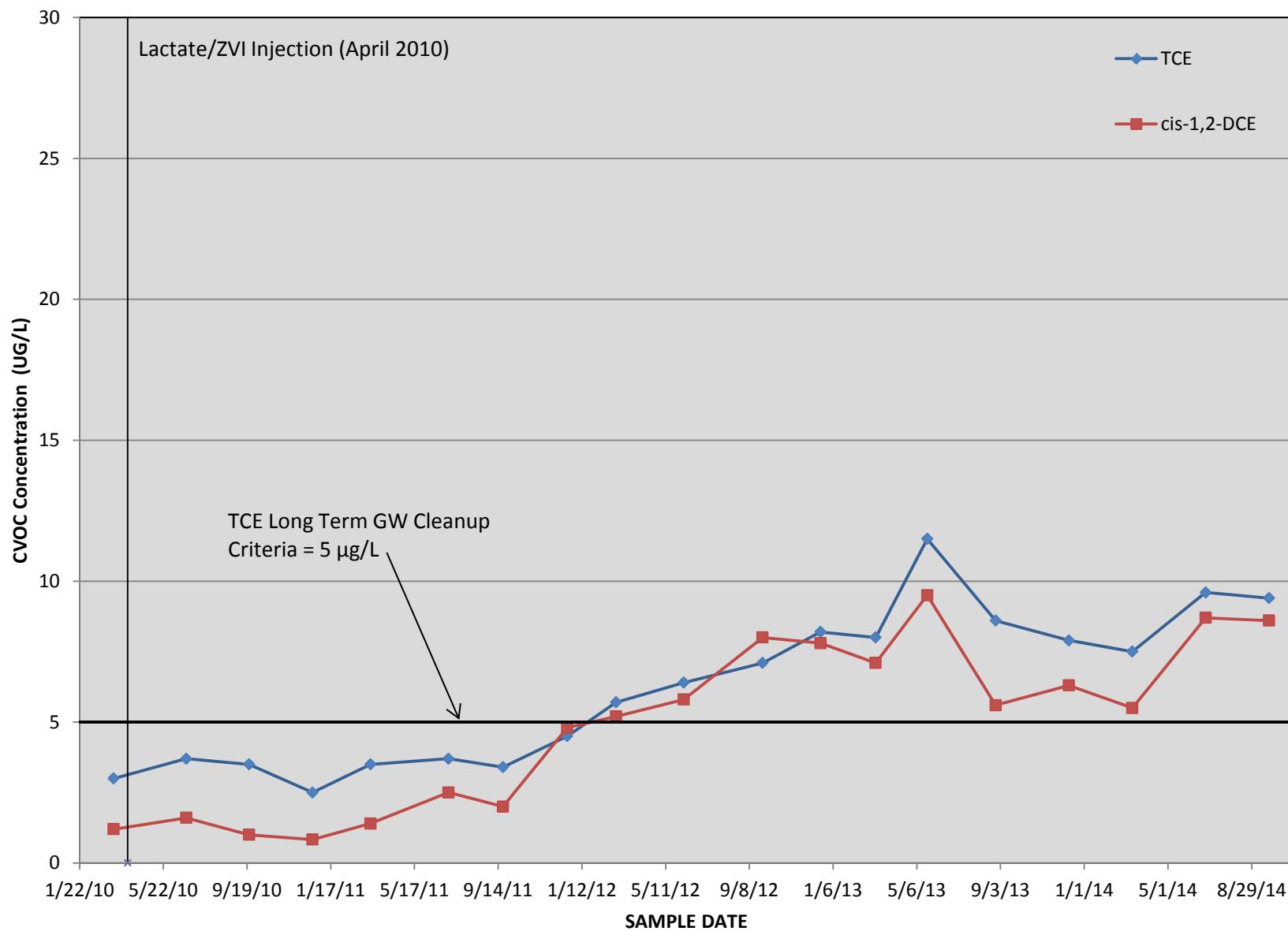


Figure 16
LTMW-05 CVOC Concentration Trend

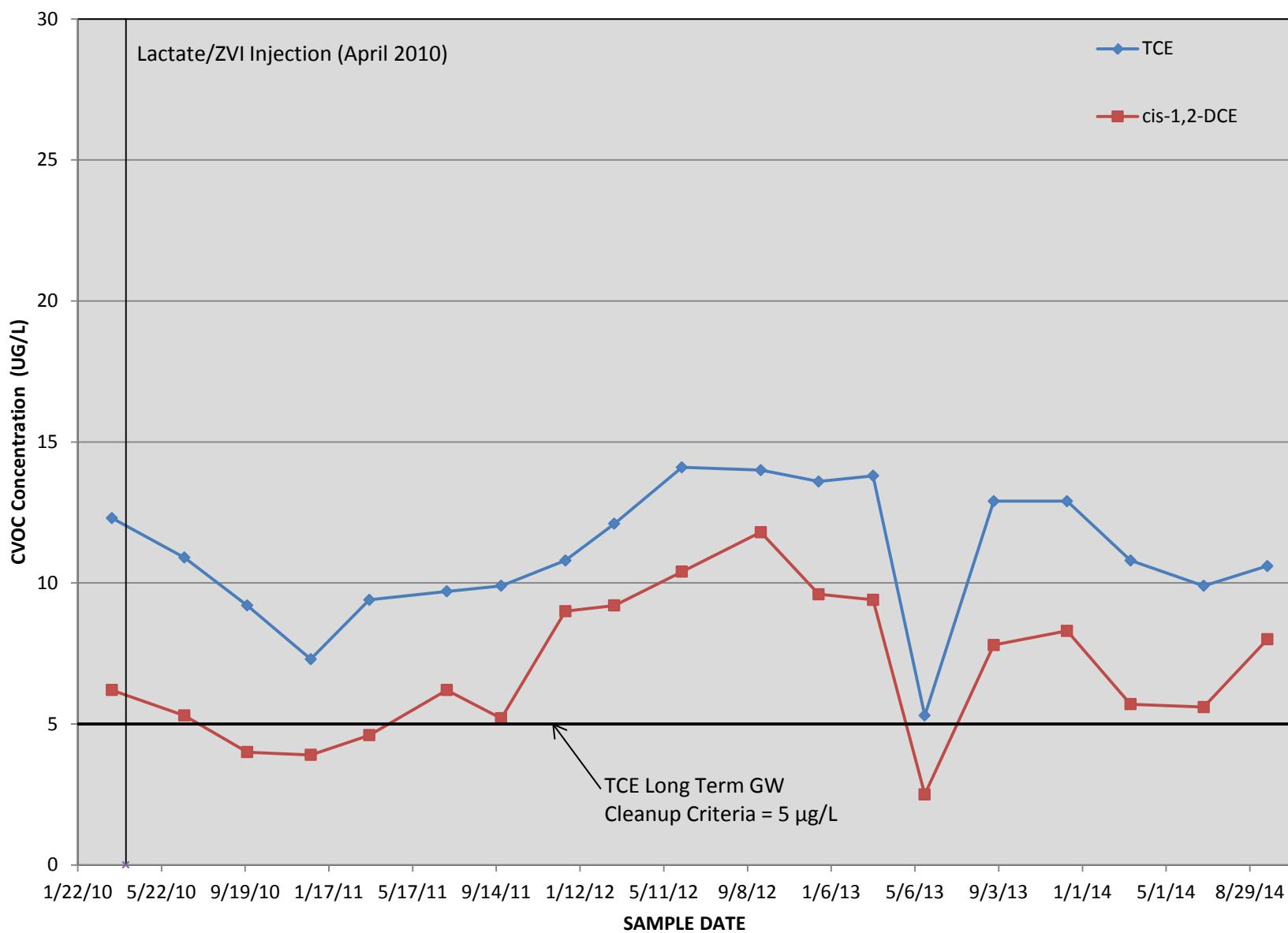


Figure 17
LTMW-06 CVOC Concentration Trend

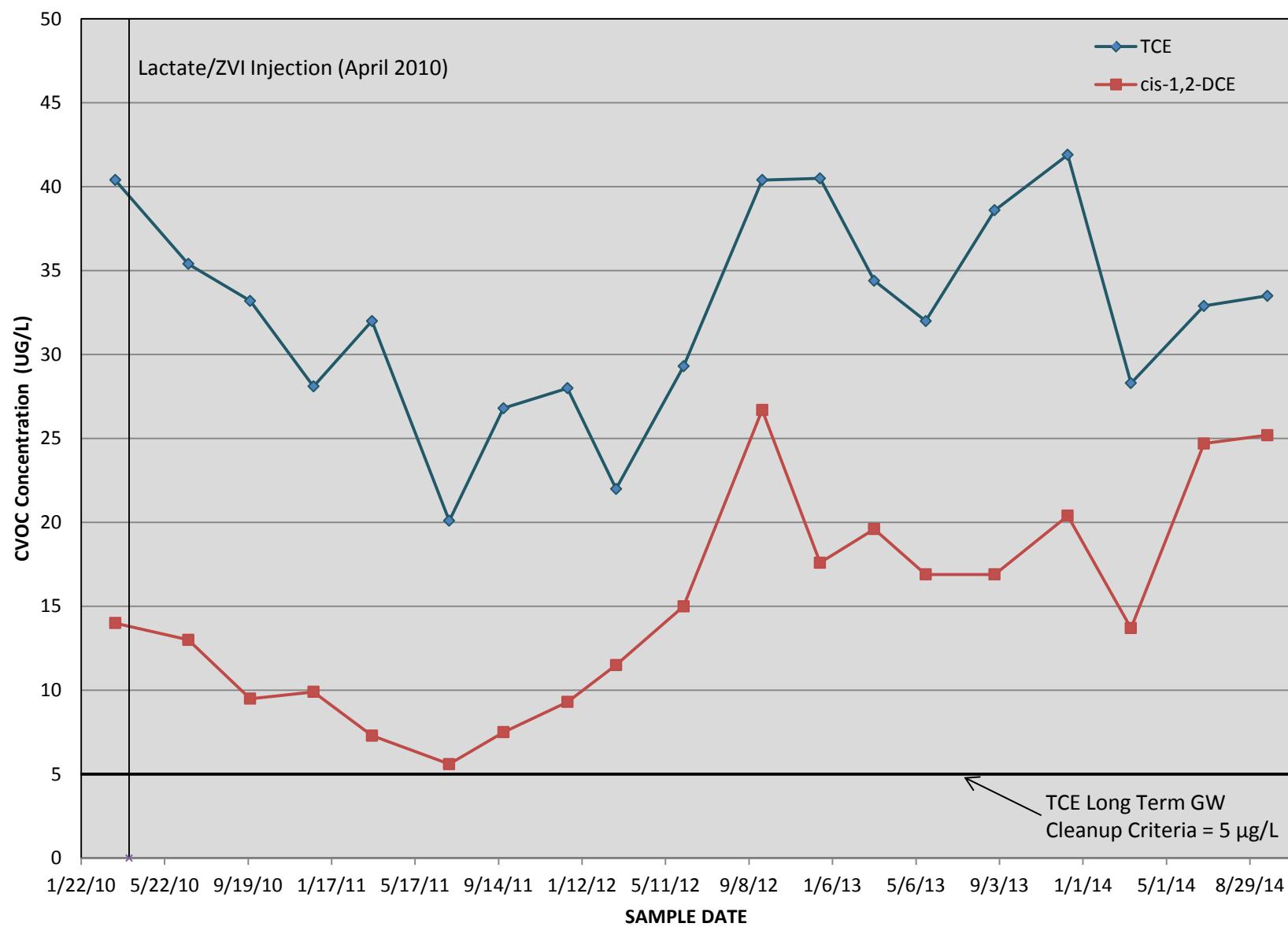


Figure 18
LTMW-07 CVOC Concentration Trend

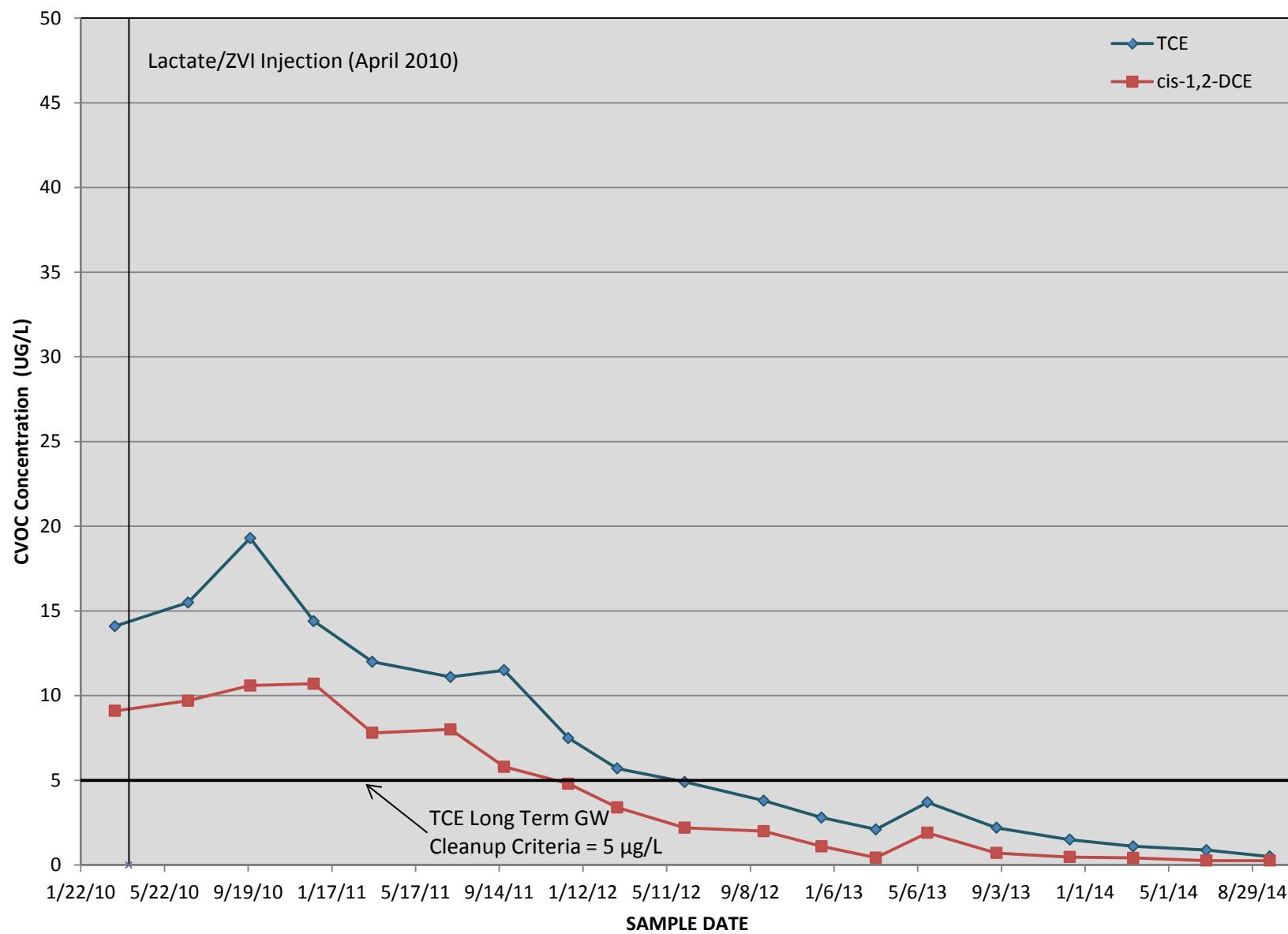


Figure 19
LTMW-08 CVOC Concentration Trend

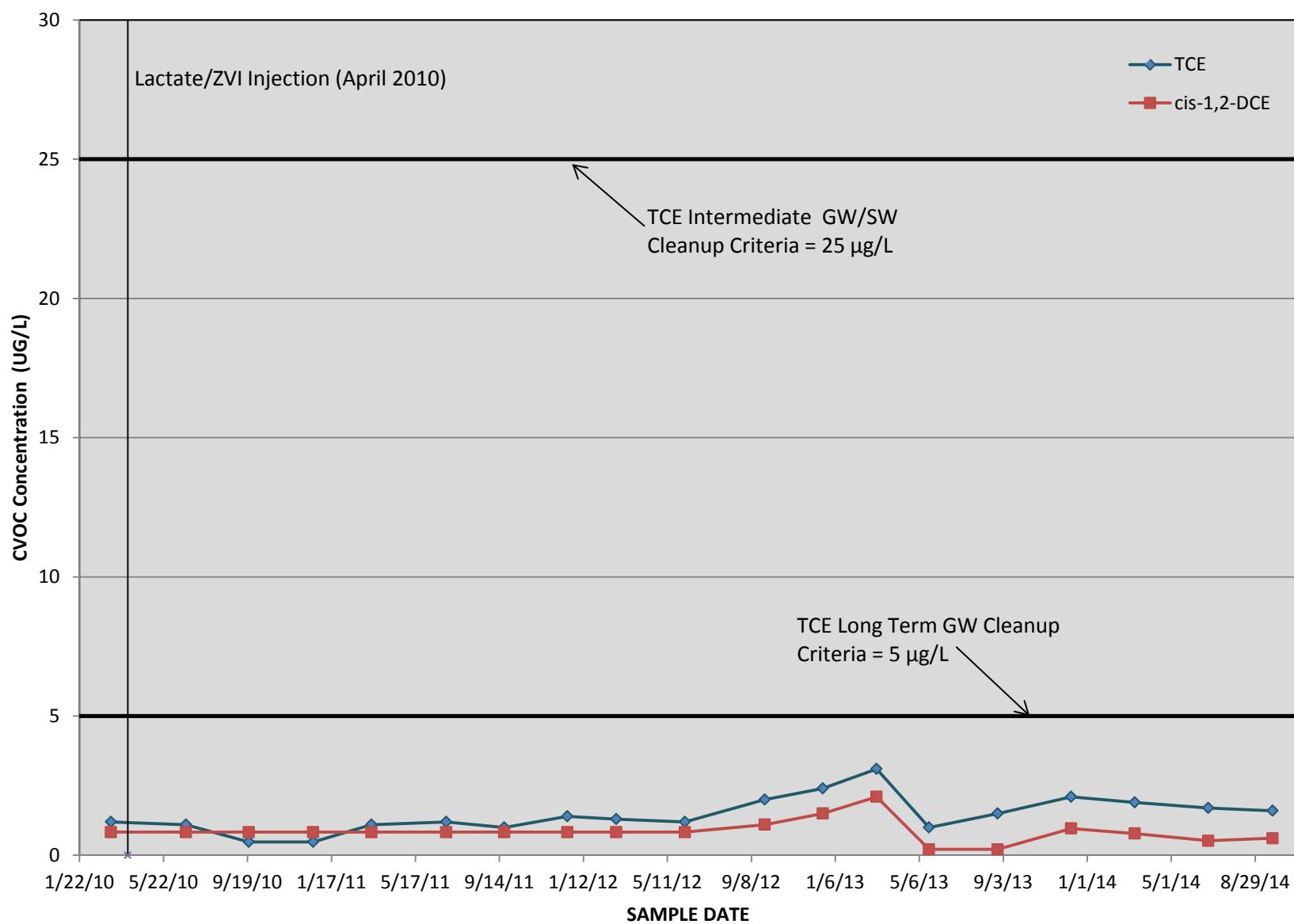


Figure 20
LTMW-09 CVOC Concentration Trend

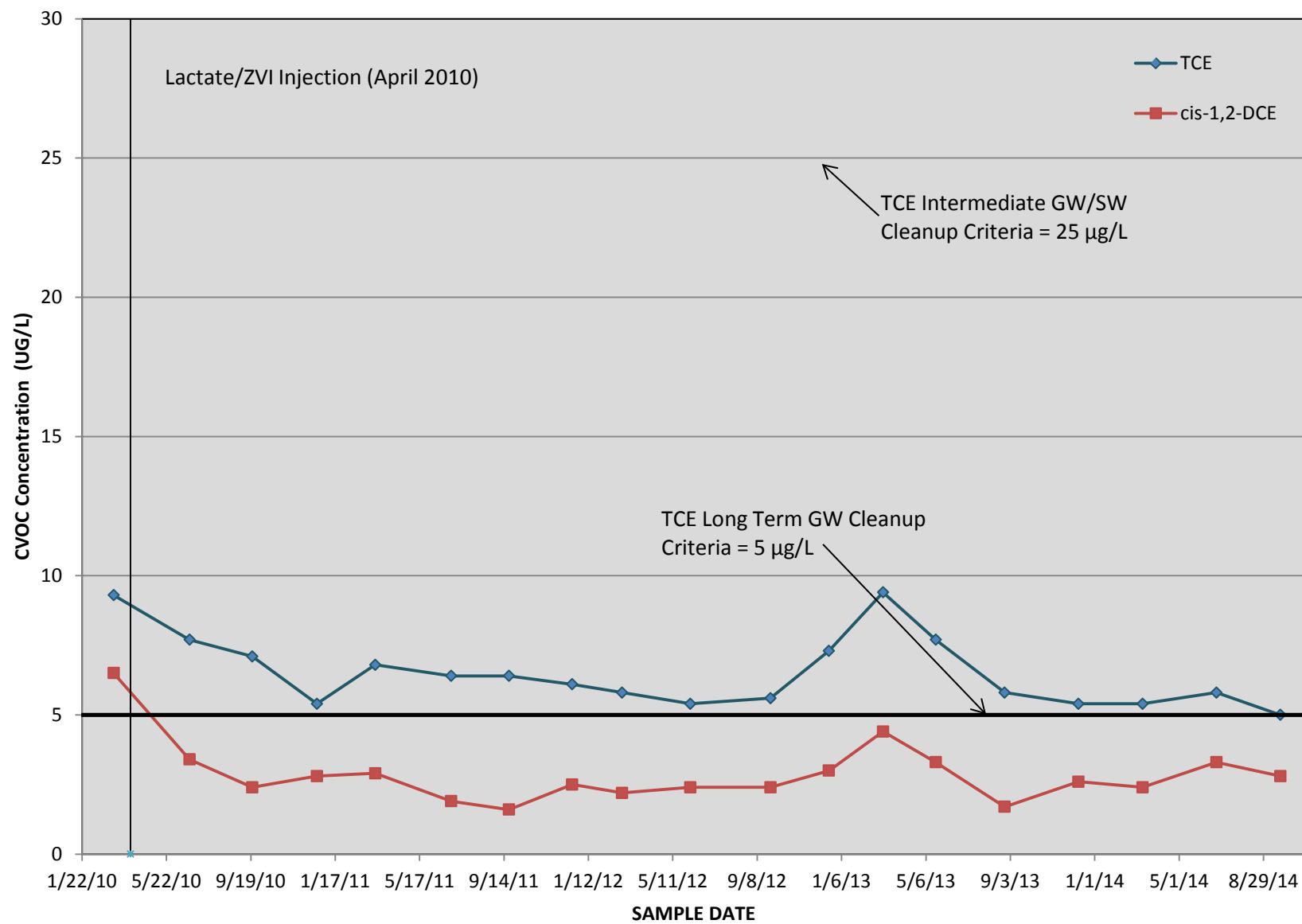


Figure 21
LTMW-10 CVOC Concentration Trend

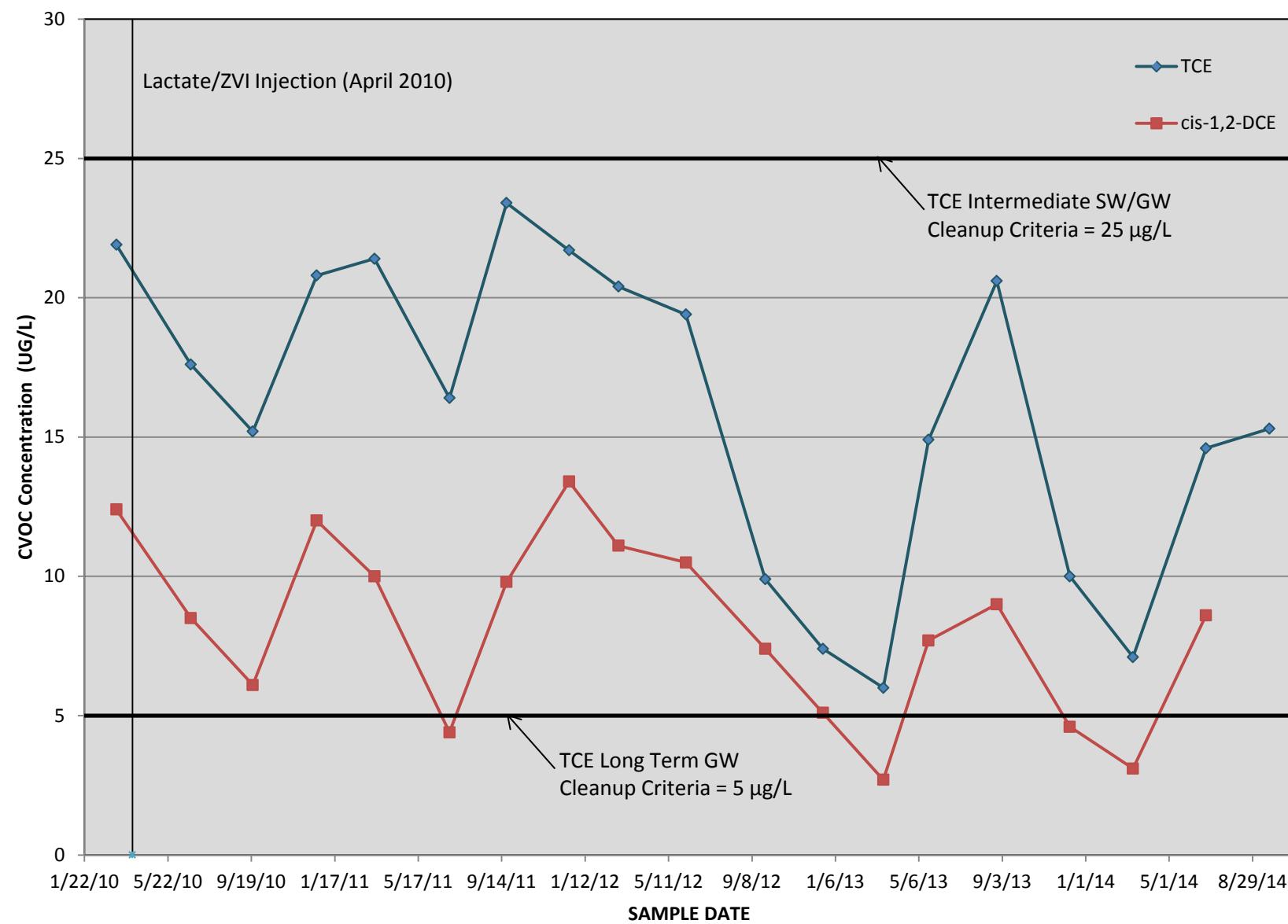
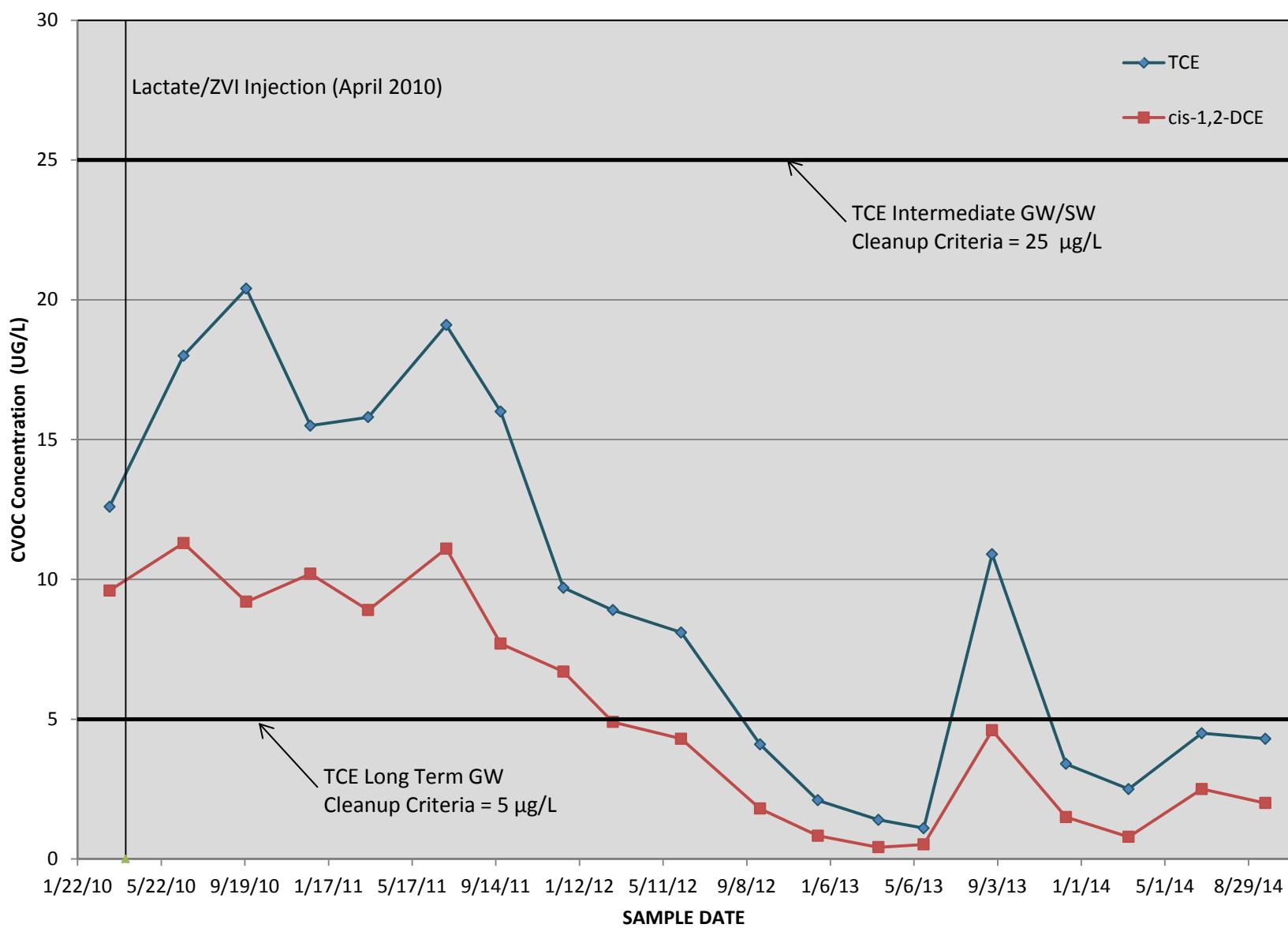


Figure 22
LTMW-11 CVOC Concentration Trend



October 03, 2014

Jim Buss
AECOM, Inc. - MADISON
1350 Deming Way
Suite 100
Middleton, WI 53562

RE: Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 40104189

Dear Jim Buss:

Enclosed are the analytical results for sample(s) received by the laboratory on September 26, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Christopher Hyska
christopher.hyska@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 40104189

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334

New York Certification #: 11888
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750

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SAMPLE SUMMARY

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 40104189

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40104189001	LTMW-08	Water	09/22/14 11:33	09/26/14 08:55
40104189002	LTMW-09	Water	09/22/14 13:13	09/26/14 08:55
40104189003	LTMW-10	Water	09/22/14 15:17	09/26/14 08:55
40104189004	LTMW-11	Water	09/22/14 16:55	09/26/14 08:55
40104189005	LTMW-04	Water	09/23/14 09:25	09/26/14 08:55
40104189006	LTMW-05	Water	09/23/14 11:02	09/26/14 08:55
40104189007	LTMW-06	Water	09/23/14 12:53	09/26/14 08:55
40104189008	RB-1	Water	09/23/14 13:10	09/26/14 08:55
40104189009	LTMW-07	Water	09/23/14 14:22	09/26/14 08:55
40104189010	DUP-01	Water	09/23/14 00:00	09/26/14 08:55
40104189011	LTMW-01	Water	09/23/14 15:34	09/26/14 08:55
40104189012	MW-101	Water	09/24/14 08:36	09/26/14 08:55
40104189013	MW-102	Water	09/24/14 09:51	09/26/14 08:55
40104189014	MW-103	Water	09/24/14 10:55	09/26/14 08:55
40104189015	MW-104	Water	09/24/14 12:03	09/26/14 08:55
40104189016	MW-107	Water	09/24/14 13:13	09/26/14 08:55
40104189017	MW-106	Water	09/24/14 14:25	09/26/14 08:55
40104189018	MW-105	Water	09/24/14 15:25	09/26/14 08:55
40104189019	DUP-02	Water	09/24/14 00:00	09/26/14 08:55
40104189020	LTMW-02	Water	09/25/14 08:40	09/26/14 08:55
40104189021	LTMW-03A	Water	09/25/14 09:36	09/26/14 08:55
40104189022	LTMW-03	Water	09/25/14 10:39	09/26/14 08:55
40104189023	TRIP BLANK	Water	09/22/14 00:00	09/26/14 08:55

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SAMPLE ANALYTE COUNT

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 40104189

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40104189001	LTMW-08	EPA 6010 EPA 8260	DLB LAP	1 14	PASI-G
40104189002	LTMW-09	EPA 6010 EPA 8260	DLB LAP	1 14	PASI-G
40104189003	LTMW-10	EPA 6010 EPA 8260	DLB LAP	1 14	PASI-G
40104189004	LTMW-11	EPA 6010 EPA 8260	DLB LAP	1 14	PASI-G
40104189005	LTMW-04	EPA 6010 EPA 8260	DLB LAP	1 14	PASI-G
40104189006	LTMW-05	EPA 6010 EPA 8260	DLB LAP	1 14	PASI-G
40104189007	LTMW-06	EPA 6010 EPA 8260	DLB LAP	1 14	PASI-G
40104189008	RB-1	EPA 8260	LAP	14	PASI-G
40104189009	LTMW-07	EPA 6010 EPA 8260	DLB LAP	1 14	PASI-G
40104189010	DUP-01	EPA 6010 EPA 8260	DLB LAP	1 14	PASI-G
40104189011	LTMW-01	EPA 6010 EPA 8260	DLB LAP	1 14	PASI-G
40104189012	MW-101	EPA 6010 EPA 8260	DLB LAP	1 14	PASI-G
40104189013	MW-102	EPA 6010 EPA 8260	DLB LAP	1 14	PASI-G
40104189014	MW-103	EPA 6010 EPA 8260	DLB LAP	1 14	PASI-G
40104189015	MW-104	EPA 6010 EPA 8260	DLB LAP	1 14	PASI-G
40104189016	MW-107	EPA 6010 EPA 8260	DLB LAP	1 14	PASI-G
40104189017	MW-106	EPA 6010 EPA 8260	DLB LAP	1 14	PASI-G
40104189018	MW-105	EPA 6010 EPA 8260	DLB LAP	1 14	PASI-G
40104189019	DUP-02	EPA 6010 EPA 8260	DLB LAP	1 14	PASI-G

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SAMPLE ANALYTE COUNT

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 40104189

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40104189020	LTMW-02	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	14	PASI-G
40104189021	LTMW-03A	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	14	PASI-G
40104189022	LTMW-03	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	14	PASI-G
40104189023	TRIP BLANK	EPA 8260	HNW	14	PASI-G

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PROJECT NARRATIVE

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 40104189

Method: EPA 6010
Description: 6010 MET ICP
Client: AECOM, Inc. - Middleton
Date: October 03, 2014

General Information:

21 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 60316733 DANA ROSCOE CORP

Pace Project No.: 40104189

Method: **EPA 8260**

Description: 8260 MSV

Client: AECOM, Inc. - Middleton

Date: October 03, 2014

General Information:

23 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: MSV/25927

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 1053516)
- trans-1,2-Dichloroethene

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/25927

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40104189001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 1054052)
- Methylene Chloride

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60316733 DANA ROSCOE CORP

Pace Project No.: 40104189

Sample: LTMW-08	Lab ID: 40104189001	Collected: 09/22/14 11:33	Received: 09/26/14 08:55	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	<1.5 ug/L		5.0	1.5	1	09/30/14 10:56	09/30/14 21:01	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	<0.50 ug/L		1.0	0.50	1		09/30/14 10:22	106-46-7	
Dichlorodifluoromethane	<0.20 ug/L		1.0	0.20	1		09/30/14 10:22	75-71-8	
1,1-Dichloroethane	<0.24 ug/L		1.0	0.24	1		09/30/14 10:22	75-34-3	
cis-1,2-Dichloroethene	0.61J ug/L		1.0	0.26	1		09/30/14 10:22	156-59-2	
trans-1,2-Dichloroethene	<0.26 ug/L		1.0	0.26	1		09/30/14 10:22	156-60-5	L3
Methylene Chloride	<0.23 ug/L		1.0	0.23	1		09/30/14 10:22	75-09-2	M1
Tetrachloroethene	<0.50 ug/L		1.0	0.50	1		09/30/14 10:22	127-18-4	
Toluene	<0.50 ug/L		1.0	0.50	1		09/30/14 10:22	108-88-3	
1,1,1-Trichloroethane	<0.50 ug/L		1.0	0.50	1		09/30/14 10:22	71-55-6	
Trichloroethene	1.6 ug/L		1.0	0.33	1		09/30/14 10:22	79-01-6	
Vinyl chloride	<0.18 ug/L		1.0	0.18	1		09/30/14 10:22	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	87 %		59-130		1		09/30/14 10:22	460-00-4	
Dibromofluoromethane (S)	107 %		70-130		1		09/30/14 10:22	1868-53-7	
Toluene-d8 (S)	100 %		70-130		1		09/30/14 10:22	2037-26-5	

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ANALYTICAL RESULTS

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 40104189

Sample: LTMW-09	Lab ID: 40104189002	Collected: 09/22/14 13:13	Received: 09/26/14 08:55	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	<1.5 ug/L		5.0	1.5	1	09/30/14 10:56	09/30/14 21:07	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	<0.50 ug/L		1.0	0.50	1		09/30/14 10:44	106-46-7	
Dichlorodifluoromethane	<0.20 ug/L		1.0	0.20	1		09/30/14 10:44	75-71-8	
1,1-Dichloroethane	<0.24 ug/L		1.0	0.24	1		09/30/14 10:44	75-34-3	
cis-1,2-Dichloroethene	2.8 ug/L		1.0	0.26	1		09/30/14 10:44	156-59-2	
trans-1,2-Dichloroethene	<0.26 ug/L		1.0	0.26	1		09/30/14 10:44	156-60-5	L3
Methylene Chloride	<0.23 ug/L		1.0	0.23	1		09/30/14 10:44	75-09-2	
Tetrachloroethene	<0.50 ug/L		1.0	0.50	1		09/30/14 10:44	127-18-4	
Toluene	<0.50 ug/L		1.0	0.50	1		09/30/14 10:44	108-88-3	
1,1,1-Trichloroethane	0.55J ug/L		1.0	0.50	1		09/30/14 10:44	71-55-6	
Trichloroethene	5.0 ug/L		1.0	0.33	1		09/30/14 10:44	79-01-6	
Vinyl chloride	<0.18 ug/L		1.0	0.18	1		09/30/14 10:44	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	89 %		59-130		1		09/30/14 10:44	460-00-4	
Dibromofluoromethane (S)	106 %		70-130		1		09/30/14 10:44	1868-53-7	
Toluene-d8 (S)	99 %		70-130		1		09/30/14 10:44	2037-26-5	

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ANALYTICAL RESULTS

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 40104189

Sample: LTMW-10	Lab ID: 40104189003	Collected: 09/22/14 15:17	Received: 09/26/14 08:55	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	<1.5 ug/L		5.0	1.5	1	09/30/14 10:56	09/30/14 21:09	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	<0.50 ug/L		1.0	0.50	1		09/30/14 11:07	106-46-7	
Dichlorodifluoromethane	<0.20 ug/L		1.0	0.20	1		09/30/14 11:07	75-71-8	
1,1-Dichloroethane	<0.24 ug/L		1.0	0.24	1		09/30/14 11:07	75-34-3	
cis-1,2-Dichloroethene	9.4 ug/L		1.0	0.26	1		09/30/14 11:07	156-59-2	
trans-1,2-Dichloroethene	<0.26 ug/L		1.0	0.26	1		09/30/14 11:07	156-60-5	L3
Methylene Chloride	<0.23 ug/L		1.0	0.23	1		09/30/14 11:07	75-09-2	
Tetrachloroethene	<0.50 ug/L		1.0	0.50	1		09/30/14 11:07	127-18-4	
Toluene	<0.50 ug/L		1.0	0.50	1		09/30/14 11:07	108-88-3	
1,1,1-Trichloroethane	<0.50 ug/L		1.0	0.50	1		09/30/14 11:07	71-55-6	
Trichloroethene	15.3 ug/L		1.0	0.33	1		09/30/14 11:07	79-01-6	
Vinyl chloride	<0.18 ug/L		1.0	0.18	1		09/30/14 11:07	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	87 %		59-130		1		09/30/14 11:07	460-00-4	
Dibromofluoromethane (S)	108 %		70-130		1		09/30/14 11:07	1868-53-7	
Toluene-d8 (S)	99 %		70-130		1		09/30/14 11:07	2037-26-5	

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ANALYTICAL RESULTS

Project: 60316733 DANA ROSCOE CORP

Pace Project No.: 40104189

Sample: LTMW-11 Lab ID: 40104189004 Collected: 09/22/14 16:55 Received: 09/26/14 08:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	<1.5 ug/L		5.0	1.5	1	09/30/14 10:56	09/30/14 21:11	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	<0.50 ug/L		1.0	0.50	1		09/30/14 11:30	106-46-7	
Dichlorodifluoromethane	<0.20 ug/L		1.0	0.20	1		09/30/14 11:30	75-71-8	
1,1-Dichloroethane	<0.24 ug/L		1.0	0.24	1		09/30/14 11:30	75-34-3	
cis-1,2-Dichloroethene	2.0 ug/L		1.0	0.26	1		09/30/14 11:30	156-59-2	
trans-1,2-Dichloroethene	<0.26 ug/L		1.0	0.26	1		09/30/14 11:30	156-60-5	L3
Methylene Chloride	<0.23 ug/L		1.0	0.23	1		09/30/14 11:30	75-09-2	
Tetrachloroethene	<0.50 ug/L		1.0	0.50	1		09/30/14 11:30	127-18-4	
Toluene	<0.50 ug/L		1.0	0.50	1		09/30/14 11:30	108-88-3	
1,1,1-Trichloroethane	<0.50 ug/L		1.0	0.50	1		09/30/14 11:30	71-55-6	
Trichloroethene	4.3 ug/L		1.0	0.33	1		09/30/14 11:30	79-01-6	
Vinyl chloride	<0.18 ug/L		1.0	0.18	1		09/30/14 11:30	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	88 %		59-130		1		09/30/14 11:30	460-00-4	
Dibromofluoromethane (S)	108 %		70-130		1		09/30/14 11:30	1868-53-7	
Toluene-d8 (S)	100 %		70-130		1		09/30/14 11:30	2037-26-5	

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ANALYTICAL RESULTS

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 40104189

Sample: LTMW-04	Lab ID: 40104189005	Collected: 09/23/14 09:25	Received: 09/26/14 08:55	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	<1.5 ug/L		5.0	1.5	1	09/30/14 10:56	09/30/14 21:14	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	<0.50 ug/L		1.0	0.50	1		09/30/14 11:53	106-46-7	
Dichlorodifluoromethane	<0.20 ug/L		1.0	0.20	1		09/30/14 11:53	75-71-8	
1,1-Dichloroethane	<0.24 ug/L		1.0	0.24	1		09/30/14 11:53	75-34-3	
cis-1,2-Dichloroethene	8.6 ug/L		1.0	0.26	1		09/30/14 11:53	156-59-2	
trans-1,2-Dichloroethene	<0.26 ug/L		1.0	0.26	1		09/30/14 11:53	156-60-5	L3
Methylene Chloride	<0.23 ug/L		1.0	0.23	1		09/30/14 11:53	75-09-2	
Tetrachloroethene	<0.50 ug/L		1.0	0.50	1		09/30/14 11:53	127-18-4	
Toluene	<0.50 ug/L		1.0	0.50	1		09/30/14 11:53	108-88-3	
1,1,1-Trichloroethane	0.75J ug/L		1.0	0.50	1		09/30/14 11:53	71-55-6	
Trichloroethene	9.4 ug/L		1.0	0.33	1		09/30/14 11:53	79-01-6	
Vinyl chloride	<0.18 ug/L		1.0	0.18	1		09/30/14 11:53	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	88 %	59-130		1			09/30/14 11:53	460-00-4	
Dibromofluoromethane (S)	107 %	70-130		1			09/30/14 11:53	1868-53-7	
Toluene-d8 (S)	99 %	70-130		1			09/30/14 11:53	2037-26-5	

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ANALYTICAL RESULTS

Project: 60316733 DANA ROSCOE CORP

Pace Project No.: 40104189

Sample: LTMW-05 Lab ID: 40104189006 Collected: 09/23/14 11:02 Received: 09/26/14 08:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	2.2 ug/L		5.0	1.5	1	09/30/14 10:56	09/30/14 21:20	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/30/14 12:15	106-46-7	
Dichlorodifluoromethane	<0.20	ug/L	1.0	0.20	1		09/30/14 12:15	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		09/30/14 12:15	75-34-3	
cis-1,2-Dichloroethene	8.0	ug/L	1.0	0.26	1		09/30/14 12:15	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		09/30/14 12:15	156-60-5	L3
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		09/30/14 12:15	75-09-2	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		09/30/14 12:15	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		09/30/14 12:15	108-88-3	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		09/30/14 12:15	71-55-6	
Trichloroethene	10.6	ug/L	1.0	0.33	1		09/30/14 12:15	79-01-6	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		09/30/14 12:15	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	89 %		59-130		1		09/30/14 12:15	460-00-4	
Dibromofluoromethane (S)	107 %		70-130		1		09/30/14 12:15	1868-53-7	
Toluene-d8 (S)	101 %		70-130		1		09/30/14 12:15	2037-26-5	

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ANALYTICAL RESULTS

Project: 60316733 DANA ROSCOE CORP

Pace Project No.: 40104189

Sample: LTMW-06	Lab ID: 40104189007	Collected: 09/23/14 12:53	Received: 09/26/14 08:55	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	1.6J	ug/L	5.0	1.5	1	09/30/14 10:56	09/30/14 21:22	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/30/14 12:38	106-46-7	
Dichlorodifluoromethane	<0.20	ug/L	1.0	0.20	1		09/30/14 12:38	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		09/30/14 12:38	75-34-3	
cis-1,2-Dichloroethene	25.2	ug/L	1.0	0.26	1		09/30/14 12:38	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		09/30/14 12:38	156-60-5	L3
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		09/30/14 12:38	75-09-2	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		09/30/14 12:38	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		09/30/14 12:38	108-88-3	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		09/30/14 12:38	71-55-6	
Trichloroethene	33.5	ug/L	1.0	0.33	1		09/30/14 12:38	79-01-6	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		09/30/14 12:38	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	86 %		59-130		1		09/30/14 12:38	460-00-4	
Dibromofluoromethane (S)	108 %		70-130		1		09/30/14 12:38	1868-53-7	
Toluene-d8 (S)	98 %		70-130		1		09/30/14 12:38	2037-26-5	

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ANALYTICAL RESULTS

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 40104189

Sample: RB-1	Lab ID: 40104189008	Collected: 09/23/14 13:10	Received: 09/26/14 08:55	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	<0.50 ug/L		1.0	0.50	1		09/30/14 13:01	106-46-7	
Dichlorodifluoromethane	<0.20 ug/L		1.0	0.20	1		09/30/14 13:01	75-71-8	
1,1-Dichloroethane	<0.24 ug/L		1.0	0.24	1		09/30/14 13:01	75-34-3	
cis-1,2-Dichloroethene	<0.26 ug/L		1.0	0.26	1		09/30/14 13:01	156-59-2	
trans-1,2-Dichloroethene	<0.26 ug/L		1.0	0.26	1		09/30/14 13:01	156-60-5	L3
Methylene Chloride	<0.23 ug/L		1.0	0.23	1		09/30/14 13:01	75-09-2	
Tetrachloroethene	<0.50 ug/L		1.0	0.50	1		09/30/14 13:01	127-18-4	
Toluene	<0.50 ug/L		1.0	0.50	1		09/30/14 13:01	108-88-3	
1,1,1-Trichloroethane	<0.50 ug/L		1.0	0.50	1		09/30/14 13:01	71-55-6	
Trichloroethene	<0.33 ug/L		1.0	0.33	1		09/30/14 13:01	79-01-6	
Vinyl chloride	<0.18 ug/L		1.0	0.18	1		09/30/14 13:01	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	88 %		59-130		1		09/30/14 13:01	460-00-4	
Dibromofluoromethane (S)	110 %		70-130		1		09/30/14 13:01	1868-53-7	
Toluene-d8 (S)	99 %		70-130		1		09/30/14 13:01	2037-26-5	

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ANALYTICAL RESULTS

Project: 60316733 DANA ROSCOE CORP

Pace Project No.: 40104189

Sample: LTMW-07 **Lab ID: 40104189009** Collected: 09/23/14 14:22 Received: 09/26/14 08:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	1.5J	ug/L	5.0	1.5	1	09/30/14 10:56	09/30/14 21:25	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/30/14 13:24	106-46-7	
Dichlorodifluoromethane	<0.20	ug/L	1.0	0.20	1		09/30/14 13:24	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		09/30/14 13:24	75-34-3	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		09/30/14 13:24	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		09/30/14 13:24	156-60-5	L3
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		09/30/14 13:24	75-09-2	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		09/30/14 13:24	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		09/30/14 13:24	108-88-3	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		09/30/14 13:24	71-55-6	
Trichloroethene	0.50J	ug/L	1.0	0.33	1		09/30/14 13:24	79-01-6	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		09/30/14 13:24	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	87 %		59-130		1		09/30/14 13:24	460-00-4	
Dibromofluoromethane (S)	111 %		70-130		1		09/30/14 13:24	1868-53-7	
Toluene-d8 (S)	100 %		70-130		1		09/30/14 13:24	2037-26-5	

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ANALYTICAL RESULTS

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 40104189

Sample: DUP-01	Lab ID: 40104189010	Collected: 09/23/14 00:00	Received: 09/26/14 08:55	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	<1.5 ug/L		5.0	1.5	1	09/30/14 10:56	09/30/14 21:27	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	<0.50 ug/L		1.0	0.50	1		09/30/14 13:47	106-46-7	
Dichlorodifluoromethane	<0.20 ug/L		1.0	0.20	1		09/30/14 13:47	75-71-8	
1,1-Dichloroethane	<0.24 ug/L		1.0	0.24	1		09/30/14 13:47	75-34-3	
cis-1,2-Dichloroethene	8.5 ug/L		1.0	0.26	1		09/30/14 13:47	156-59-2	
trans-1,2-Dichloroethene	<0.26 ug/L		1.0	0.26	1		09/30/14 13:47	156-60-5	L3
Methylene Chloride	<0.23 ug/L		1.0	0.23	1		09/30/14 13:47	75-09-2	
Tetrachloroethene	<0.50 ug/L		1.0	0.50	1		09/30/14 13:47	127-18-4	
Toluene	<0.50 ug/L		1.0	0.50	1		09/30/14 13:47	108-88-3	
1,1,1-Trichloroethane	0.65J ug/L		1.0	0.50	1		09/30/14 13:47	71-55-6	
Trichloroethene	9.3 ug/L		1.0	0.33	1		09/30/14 13:47	79-01-6	
Vinyl chloride	<0.18 ug/L		1.0	0.18	1		09/30/14 13:47	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	86 %	59-130		1		09/30/14 13:47	460-00-4		
Dibromofluoromethane (S)	108 %	70-130		1		09/30/14 13:47	1868-53-7		
Toluene-d8 (S)	98 %	70-130		1		09/30/14 13:47	2037-26-5		

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ANALYTICAL RESULTS

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 40104189

Sample: LTMW-01	Lab ID: 40104189011	Collected: 09/23/14 15:34	Received: 09/26/14 08:55	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	<1.5 ug/L		5.0	1.5	1	09/30/14 10:56	09/30/14 21:29	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	<0.50 ug/L		1.0	0.50	1		09/30/14 14:09	106-46-7	
Dichlorodifluoromethane	<0.20 ug/L		1.0	0.20	1		09/30/14 14:09	75-71-8	
1,1-Dichloroethane	2.4 ug/L		1.0	0.24	1		09/30/14 14:09	75-34-3	
cis-1,2-Dichloroethene	9.3 ug/L		1.0	0.26	1		09/30/14 14:09	156-59-2	
trans-1,2-Dichloroethene	<0.26 ug/L		1.0	0.26	1		09/30/14 14:09	156-60-5	L3
Methylene Chloride	<0.23 ug/L		1.0	0.23	1		09/30/14 14:09	75-09-2	
Tetrachloroethene	<0.50 ug/L		1.0	0.50	1		09/30/14 14:09	127-18-4	
Toluene	<0.50 ug/L		1.0	0.50	1		09/30/14 14:09	108-88-3	
1,1,1-Trichloroethane	22.5 ug/L		1.0	0.50	1		09/30/14 14:09	71-55-6	
Trichloroethene	0.40J ug/L		1.0	0.33	1		09/30/14 14:09	79-01-6	
Vinyl chloride	<0.18 ug/L		1.0	0.18	1		09/30/14 14:09	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	87 %	59-130		1		09/30/14 14:09	460-00-4		
Dibromofluoromethane (S)	110 %	70-130		1		09/30/14 14:09	1868-53-7		
Toluene-d8 (S)	98 %	70-130		1		09/30/14 14:09	2037-26-5		

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ANALYTICAL RESULTS

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 40104189

Sample: MW-101	Lab ID: 40104189012	Collected: 09/24/14 08:36	Received: 09/26/14 08:55	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	<1.5 ug/L		5.0	1.5	1	09/30/14 10:56	09/30/14 21:31	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	<0.50 ug/L		1.0	0.50	1		09/30/14 14:32	106-46-7	
Dichlorodifluoromethane	<0.20 ug/L		1.0	0.20	1		09/30/14 14:32	75-71-8	
1,1-Dichloroethane	0.53J ug/L		1.0	0.24	1		09/30/14 14:32	75-34-3	
cis-1,2-Dichloroethene	3.6 ug/L		1.0	0.26	1		09/30/14 14:32	156-59-2	
trans-1,2-Dichloroethene	<0.26 ug/L		1.0	0.26	1		09/30/14 14:32	156-60-5	L3
Methylene Chloride	0.28J ug/L		1.0	0.23	1		09/30/14 14:32	75-09-2	
Tetrachloroethene	<0.50 ug/L		1.0	0.50	1		09/30/14 14:32	127-18-4	
Toluene	<0.50 ug/L		1.0	0.50	1		09/30/14 14:32	108-88-3	
1,1,1-Trichloroethane	<0.50 ug/L		1.0	0.50	1		09/30/14 14:32	71-55-6	
Trichloroethene	26.8 ug/L		1.0	0.33	1		09/30/14 14:32	79-01-6	
Vinyl chloride	<0.18 ug/L		1.0	0.18	1		09/30/14 14:32	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	86 %	59-130		1		09/30/14 14:32	460-00-4		
Dibromofluoromethane (S)	110 %	70-130		1		09/30/14 14:32	1868-53-7		
Toluene-d8 (S)	98 %	70-130		1		09/30/14 14:32	2037-26-5		

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ANALYTICAL RESULTS

Project: 60316733 DANA ROSCOE CORP

Pace Project No.: 40104189

Sample: MW-102	Lab ID: 40104189013	Collected: 09/24/14 09:51	Received: 09/26/14 08:55	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	<1.5 ug/L		5.0	1.5	1	09/30/14 10:56	09/30/14 21:34	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	<0.50 ug/L		1.0	0.50	1		09/30/14 14:55	106-46-7	
Dichlorodifluoromethane	<0.20 ug/L		1.0	0.20	1		09/30/14 14:55	75-71-8	
1,1-Dichloroethane	<0.24 ug/L		1.0	0.24	1		09/30/14 14:55	75-34-3	
cis-1,2-Dichloroethene	1.1 ug/L		1.0	0.26	1		09/30/14 14:55	156-59-2	
trans-1,2-Dichloroethene	<0.26 ug/L		1.0	0.26	1		09/30/14 14:55	156-60-5	L3
Methylene Chloride	<0.23 ug/L		1.0	0.23	1		09/30/14 14:55	75-09-2	
Tetrachloroethene	<0.50 ug/L		1.0	0.50	1		09/30/14 14:55	127-18-4	
Toluene	<0.50 ug/L		1.0	0.50	1		09/30/14 14:55	108-88-3	
1,1,1-Trichloroethane	<0.50 ug/L		1.0	0.50	1		09/30/14 14:55	71-55-6	
Trichloroethene	10.9 ug/L		1.0	0.33	1		09/30/14 14:55	79-01-6	
Vinyl chloride	<0.18 ug/L		1.0	0.18	1		09/30/14 14:55	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	86 %		59-130		1		09/30/14 14:55	460-00-4	
Dibromofluoromethane (S)	112 %		70-130		1		09/30/14 14:55	1868-53-7	
Toluene-d8 (S)	98 %		70-130		1		09/30/14 14:55	2037-26-5	

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ANALYTICAL RESULTS

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 40104189

Sample: MW-103	Lab ID: 40104189014	Collected: 09/24/14 10:55	Received: 09/26/14 08:55	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	<1.5 ug/L		5.0	1.5	1	09/30/14 10:56	09/30/14 21:36	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	<0.50 ug/L		1.0	0.50	1		09/30/14 15:18	106-46-7	
Dichlorodifluoromethane	<0.20 ug/L		1.0	0.20	1		09/30/14 15:18	75-71-8	
1,1-Dichloroethane	<0.24 ug/L		1.0	0.24	1		09/30/14 15:18	75-34-3	
cis-1,2-Dichloroethene	7.3 ug/L		1.0	0.26	1		09/30/14 15:18	156-59-2	
trans-1,2-Dichloroethene	<0.26 ug/L		1.0	0.26	1		09/30/14 15:18	156-60-5	L3
Methylene Chloride	<0.23 ug/L		1.0	0.23	1		09/30/14 15:18	75-09-2	
Tetrachloroethene	<0.50 ug/L		1.0	0.50	1		09/30/14 15:18	127-18-4	
Toluene	<0.50 ug/L		1.0	0.50	1		09/30/14 15:18	108-88-3	
1,1,1-Trichloroethane	<0.50 ug/L		1.0	0.50	1		09/30/14 15:18	71-55-6	
Trichloroethene	34.1 ug/L		1.0	0.33	1		09/30/14 15:18	79-01-6	
Vinyl chloride	<0.18 ug/L		1.0	0.18	1		09/30/14 15:18	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	86 %	59-130		1		09/30/14 15:18	460-00-4		
Dibromofluoromethane (S)	110 %	70-130		1		09/30/14 15:18	1868-53-7		
Toluene-d8 (S)	97 %	70-130		1		09/30/14 15:18	2037-26-5		

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ANALYTICAL RESULTS

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 40104189

Sample: MW-104	Lab ID: 40104189015	Collected: 09/24/14 12:03	Received: 09/26/14 08:55	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	<1.5 ug/L		5.0	1.5	1	09/30/14 10:56	09/30/14 21:38	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	<0.50 ug/L		1.0	0.50	1		09/30/14 15:40	106-46-7	
Dichlorodifluoromethane	<0.20 ug/L		1.0	0.20	1		09/30/14 15:40	75-71-8	
1,1-Dichloroethane	<0.24 ug/L		1.0	0.24	1		09/30/14 15:40	75-34-3	
cis-1,2-Dichloroethene	10.8 ug/L		1.0	0.26	1		09/30/14 15:40	156-59-2	
trans-1,2-Dichloroethene	<0.26 ug/L		1.0	0.26	1		09/30/14 15:40	156-60-5	L3
Methylene Chloride	<0.23 ug/L		1.0	0.23	1		09/30/14 15:40	75-09-2	
Tetrachloroethene	<0.50 ug/L		1.0	0.50	1		09/30/14 15:40	127-18-4	
Toluene	<0.50 ug/L		1.0	0.50	1		09/30/14 15:40	108-88-3	
1,1,1-Trichloroethane	<0.50 ug/L		1.0	0.50	1		09/30/14 15:40	71-55-6	
Trichloroethene	99.2 ug/L		1.0	0.33	1		09/30/14 15:40	79-01-6	
Vinyl chloride	<0.18 ug/L		1.0	0.18	1		09/30/14 15:40	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	87 %		59-130		1		09/30/14 15:40	460-00-4	
Dibromofluoromethane (S)	109 %		70-130		1		09/30/14 15:40	1868-53-7	
Toluene-d8 (S)	95 %		70-130		1		09/30/14 15:40	2037-26-5	

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ANALYTICAL RESULTS

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 40104189

Sample: MW-107	Lab ID: 40104189016	Collected: 09/24/14 13:13	Received: 09/26/14 08:55	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	<1.5 ug/L		5.0	1.5	1	09/30/14 10:56	09/30/14 21:40	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	<0.50 ug/L		1.0	0.50	1		09/30/14 16:03	106-46-7	
Dichlorodifluoromethane	<0.20 ug/L		1.0	0.20	1		09/30/14 16:03	75-71-8	
1,1-Dichloroethane	<0.24 ug/L		1.0	0.24	1		09/30/14 16:03	75-34-3	
cis-1,2-Dichloroethene	0.81J ug/L		1.0	0.26	1		09/30/14 16:03	156-59-2	
trans-1,2-Dichloroethene	<0.26 ug/L		1.0	0.26	1		09/30/14 16:03	156-60-5	L3
Methylene Chloride	<0.23 ug/L		1.0	0.23	1		09/30/14 16:03	75-09-2	
Tetrachloroethene	0.70J ug/L		1.0	0.50	1		09/30/14 16:03	127-18-4	
Toluene	<0.50 ug/L		1.0	0.50	1		09/30/14 16:03	108-88-3	
1,1,1-Trichloroethane	8.4 ug/L		1.0	0.50	1		09/30/14 16:03	71-55-6	
Trichloroethene	11.0 ug/L		1.0	0.33	1		09/30/14 16:03	79-01-6	
Vinyl chloride	<0.18 ug/L		1.0	0.18	1		09/30/14 16:03	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	86 %	59-130		1		09/30/14 16:03	460-00-4		
Dibromofluoromethane (S)	113 %	70-130		1		09/30/14 16:03	1868-53-7		
Toluene-d8 (S)	99 %	70-130		1		09/30/14 16:03	2037-26-5		

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ANALYTICAL RESULTS

Project: 60316733 DANA ROSCOE CORP

Pace Project No.: 40104189

Sample: MW-106 **Lab ID: 40104189017** Collected: 09/24/14 14:25 Received: 09/26/14 08:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	<1.5 ug/L		5.0	1.5	1	09/30/14 10:56	09/30/14 21:47	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	<0.50 ug/L		1.0	0.50	1		09/30/14 17:48	106-46-7	
Dichlorodifluoromethane	<0.20 ug/L		1.0	0.20	1		09/30/14 17:48	75-71-8	
1,1-Dichloroethane	<0.24 ug/L		1.0	0.24	1		09/30/14 17:48	75-34-3	
cis-1,2-Dichloroethene	<0.26 ug/L		1.0	0.26	1		09/30/14 17:48	156-59-2	
trans-1,2-Dichloroethene	<0.26 ug/L		1.0	0.26	1		09/30/14 17:48	156-60-5	L3
Methylene Chloride	<0.23 ug/L		1.0	0.23	1		09/30/14 17:48	75-09-2	
Tetrachloroethene	<0.50 ug/L		1.0	0.50	1		09/30/14 17:48	127-18-4	
Toluene	<0.50 ug/L		1.0	0.50	1		09/30/14 17:48	108-88-3	
1,1,1-Trichloroethane	<0.50 ug/L		1.0	0.50	1		09/30/14 17:48	71-55-6	
Trichloroethene	0.84J ug/L		1.0	0.33	1		09/30/14 17:48	79-01-6	
Vinyl chloride	<0.18 ug/L		1.0	0.18	1		09/30/14 17:48	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	86 %	59-130		1			09/30/14 17:48	460-00-4	
Dibromofluoromethane (S)	110 %	70-130		1			09/30/14 17:48	1868-53-7	
Toluene-d8 (S)	99 %	70-130		1			09/30/14 17:48	2037-26-5	

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ANALYTICAL RESULTS

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 40104189

Sample: MW-105	Lab ID: 40104189018	Collected: 09/24/14 15:25	Received: 09/26/14 08:55	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	3.2J	ug/L	5.0	1.5	1	09/30/14 10:56	09/30/14 21:49	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/30/14 18:11	106-46-7	
Dichlorodifluoromethane	<0.20	ug/L	1.0	0.20	1		09/30/14 18:11	75-71-8	
1,1-Dichloroethane	0.78J	ug/L	1.0	0.24	1		09/30/14 18:11	75-34-3	
cis-1,2-Dichloroethene	8.4	ug/L	1.0	0.26	1		09/30/14 18:11	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		09/30/14 18:11	156-60-5	L3
Methylene Chloride	0.27J	ug/L	1.0	0.23	1		09/30/14 18:11	75-09-2	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		09/30/14 18:11	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		09/30/14 18:11	108-88-3	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		09/30/14 18:11	71-55-6	
Trichloroethene	12.0	ug/L	1.0	0.33	1		09/30/14 18:11	79-01-6	
Vinyl chloride	29.2	ug/L	1.0	0.18	1		09/30/14 18:11	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	85 %	59-130		1		09/30/14 18:11	460-00-4		
Dibromofluoromethane (S)	112 %	70-130		1		09/30/14 18:11	1868-53-7		
Toluene-d8 (S)	93 %	70-130		1		09/30/14 18:11	2037-26-5		

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ANALYTICAL RESULTS

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 40104189

Sample: DUP-02	Lab ID: 40104189019	Collected: 09/24/14 00:00	Received: 09/26/14 08:55	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	<1.5 ug/L		5.0	1.5	1	09/30/14 10:56	09/30/14 21:51	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	<0.50 ug/L		1.0	0.50	1		09/30/14 18:34	106-46-7	
Dichlorodifluoromethane	<0.20 ug/L		1.0	0.20	1		09/30/14 18:34	75-71-8	
1,1-Dichloroethane	<0.24 ug/L		1.0	0.24	1		09/30/14 18:34	75-34-3	
cis-1,2-Dichloroethene	0.87J ug/L		1.0	0.26	1		09/30/14 18:34	156-59-2	
trans-1,2-Dichloroethene	<0.26 ug/L		1.0	0.26	1		09/30/14 18:34	156-60-5	L3
Methylene Chloride	<0.23 ug/L		1.0	0.23	1		09/30/14 18:34	75-09-2	
Tetrachloroethene	<0.50 ug/L		1.0	0.50	1		09/30/14 18:34	127-18-4	
Toluene	<0.50 ug/L		1.0	0.50	1		09/30/14 18:34	108-88-3	
1,1,1-Trichloroethane	<0.50 ug/L		1.0	0.50	1		09/30/14 18:34	71-55-6	
Trichloroethene	10.6 ug/L		1.0	0.33	1		09/30/14 18:34	79-01-6	
Vinyl chloride	<0.18 ug/L		1.0	0.18	1		09/30/14 18:34	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	86 %	59-130		1		09/30/14 18:34	460-00-4		
Dibromofluoromethane (S)	111 %	70-130		1		09/30/14 18:34	1868-53-7		
Toluene-d8 (S)	98 %	70-130		1		09/30/14 18:34	2037-26-5		

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ANALYTICAL RESULTS

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 40104189

Sample: LTMW-02 Lab ID: 40104189020 Collected: 09/25/14 08:40 Received: 09/26/14 08:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	<1.5 ug/L		5.0	1.5	1	09/30/14 10:56	09/30/14 21:53	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	<0.50 ug/L		1.0	0.50	1		09/30/14 18:56	106-46-7	
Dichlorodifluoromethane	<0.20 ug/L		1.0	0.20	1		09/30/14 18:56	75-71-8	
1,1-Dichloroethane	<0.24 ug/L		1.0	0.24	1		09/30/14 18:56	75-34-3	
cis-1,2-Dichloroethene	0.98J ug/L		1.0	0.26	1		09/30/14 18:56	156-59-2	
trans-1,2-Dichloroethene	<0.26 ug/L		1.0	0.26	1		09/30/14 18:56	156-60-5	L3
Methylene Chloride	<0.23 ug/L		1.0	0.23	1		09/30/14 18:56	75-09-2	
Tetrachloroethene	<0.50 ug/L		1.0	0.50	1		09/30/14 18:56	127-18-4	
Toluene	<0.50 ug/L		1.0	0.50	1		09/30/14 18:56	108-88-3	
1,1,1-Trichloroethane	<0.50 ug/L		1.0	0.50	1		09/30/14 18:56	71-55-6	
Trichloroethene	2.6 ug/L		1.0	0.33	1		09/30/14 18:56	79-01-6	
Vinyl chloride	<0.18 ug/L		1.0	0.18	1		09/30/14 18:56	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	86 %		59-130		1		09/30/14 18:56	460-00-4	
Dibromofluoromethane (S)	113 %		70-130		1		09/30/14 18:56	1868-53-7	
Toluene-d8 (S)	99 %		70-130		1		09/30/14 18:56	2037-26-5	

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ANALYTICAL RESULTS

Project: 60316733 DANA ROSCOE CORP

Pace Project No.: 40104189

Sample: LTMW-03A	Lab ID: 40104189021	Collected: 09/25/14 09:36	Received: 09/26/14 08:55	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	<1.5 ug/L		5.0	1.5	1	09/30/14 10:00	09/30/14 20:37	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	<0.50 ug/L		1.0	0.50	1		09/30/14 10:28	106-46-7	
Dichlorodifluoromethane	<0.20 ug/L		1.0	0.20	1		09/30/14 10:28	75-71-8	
1,1-Dichloroethane	0.40J ug/L		1.0	0.24	1		09/30/14 10:28	75-34-3	
cis-1,2-Dichloroethene	2.6 ug/L		1.0	0.26	1		09/30/14 10:28	156-59-2	
trans-1,2-Dichloroethene	<0.26 ug/L		1.0	0.26	1		09/30/14 10:28	156-60-5	
Methylene Chloride	<0.23 ug/L		1.0	0.23	1		09/30/14 10:28	75-09-2	
Tetrachloroethene	<0.50 ug/L		1.0	0.50	1		09/30/14 10:28	127-18-4	
Toluene	<0.50 ug/L		1.0	0.50	1		09/30/14 10:28	108-88-3	
1,1,1-Trichloroethane	<0.50 ug/L		1.0	0.50	1		09/30/14 10:28	71-55-6	
Trichloroethene	1.1 ug/L		1.0	0.33	1		09/30/14 10:28	79-01-6	
Vinyl chloride	4.1 ug/L		1.0	0.18	1		09/30/14 10:28	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	85 %		59-130		1		09/30/14 10:28	460-00-4	
Dibromofluoromethane (S)	107 %		70-130		1		09/30/14 10:28	1868-53-7	
Toluene-d8 (S)	97 %		70-130		1		09/30/14 10:28	2037-26-5	

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ANALYTICAL RESULTS

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 40104189

Sample: LTMW-03 Lab ID: 40104189022 Collected: 09/25/14 10:39 Received: 09/26/14 08:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	<1.5 ug/L		5.0	1.5	1	09/30/14 10:00	09/30/14 20:39	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	<0.50 ug/L		1.0	0.50	1		09/30/14 10:49	106-46-7	
Dichlorodifluoromethane	<0.20 ug/L		1.0	0.20	1		09/30/14 10:49	75-71-8	
1,1-Dichloroethane	<0.24 ug/L		1.0	0.24	1		09/30/14 10:49	75-34-3	
cis-1,2-Dichloroethene	15.0 ug/L		1.0	0.26	1		09/30/14 10:49	156-59-2	
trans-1,2-Dichloroethene	<0.26 ug/L		1.0	0.26	1		09/30/14 10:49	156-60-5	
Methylene Chloride	<0.23 ug/L		1.0	0.23	1		09/30/14 10:49	75-09-2	
Tetrachloroethene	<0.50 ug/L		1.0	0.50	1		09/30/14 10:49	127-18-4	
Toluene	<0.50 ug/L		1.0	0.50	1		09/30/14 10:49	108-88-3	
1,1,1-Trichloroethane	<0.50 ug/L		1.0	0.50	1		09/30/14 10:49	71-55-6	
Trichloroethene	6.6 ug/L		1.0	0.33	1		09/30/14 10:49	79-01-6	
Vinyl chloride	11.2 ug/L		1.0	0.18	1		09/30/14 10:49	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	85 %		59-130		1		09/30/14 10:49	460-00-4	
Dibromofluoromethane (S)	106 %		70-130		1		09/30/14 10:49	1868-53-7	
Toluene-d8 (S)	97 %		70-130		1		09/30/14 10:49	2037-26-5	

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ANALYTICAL RESULTS

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 40104189

Sample: TRIP BLANK Lab ID: 40104189023 Collected: 09/22/14 00:00 Received: 09/26/14 08:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	<0.50 ug/L		1.0	0.50	1		09/30/14 08:29	106-46-7	
Dichlorodifluoromethane	<0.20 ug/L		1.0	0.20	1		09/30/14 08:29	75-71-8	
1,1-Dichloroethane	<0.24 ug/L		1.0	0.24	1		09/30/14 08:29	75-34-3	
cis-1,2-Dichloroethene	<0.26 ug/L		1.0	0.26	1		09/30/14 08:29	156-59-2	
trans-1,2-Dichloroethene	<0.26 ug/L		1.0	0.26	1		09/30/14 08:29	156-60-5	
Methylene Chloride	<0.23 ug/L		1.0	0.23	1		09/30/14 08:29	75-09-2	
Tetrachloroethene	<0.50 ug/L		1.0	0.50	1		09/30/14 08:29	127-18-4	
Toluene	<0.50 ug/L		1.0	0.50	1		09/30/14 08:29	108-88-3	
1,1,1-Trichloroethane	<0.50 ug/L		1.0	0.50	1		09/30/14 08:29	71-55-6	
Trichloroethene	<0.33 ug/L		1.0	0.33	1		09/30/14 08:29	79-01-6	
Vinyl chloride	<0.18 ug/L		1.0	0.18	1		09/30/14 08:29	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	93 %		59-130		1		09/30/14 08:29	460-00-4	
Dibromofluoromethane (S)	92 %		70-130		1		09/30/14 08:29	1868-53-7	
Toluene-d8 (S)	93 %		70-130		1		09/30/14 08:29	2037-26-5	

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QUALITY CONTROL DATA

Project: 60316733 DANA ROSCOE CORP

Pace Project No.: 40104189

QC Batch: MPRP/10873 Analysis Method: EPA 6010

QC Batch Method: EPA 3010 Analysis Description: 6010 MET

Associated Lab Samples: 40104189021, 40104189022

METHOD BLANK: 1054160 Matrix: Water

Associated Lab Samples: 40104189021, 40104189022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium	ug/L	<1.5	5.0	10/01/14 10:24	

LABORATORY CONTROL SAMPLE: 1054161

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium	ug/L	500	520	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1054162 1054163

Parameter	Units	10282112003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Chromium	ug/L	ND	500	500	532	527	106	105	75-125	1	20	

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QUALITY CONTROL DATA

Project: 60316733 DANA ROSCOE CORP

Pace Project No.: 40104189

QC Batch: MPRP/10875 Analysis Method: EPA 6010

QC Batch Method: EPA 3010 Analysis Description: 6010 MET

Associated Lab Samples: 40104189001, 40104189002, 40104189003, 40104189004, 40104189005, 40104189006, 40104189007,
40104189009, 40104189010, 40104189011, 40104189012, 40104189013, 40104189014, 40104189015,
40104189016, 40104189017, 40104189018, 40104189019, 40104189020

METHOD BLANK: 1054264 Matrix: Water

Associated Lab Samples: 40104189001, 40104189002, 40104189003, 40104189004, 40104189005, 40104189006, 40104189007,
40104189009, 40104189010, 40104189011, 40104189012, 40104189013, 40104189014, 40104189015,
40104189016, 40104189017, 40104189018, 40104189019, 40104189020

Parameter	Units	Blank	Reporting	Analyzed	Qualifiers
		Result	Limit		
Chromium	ug/L	<1.5	5.0	09/30/14 20:56	

LABORATORY CONTROL SAMPLE: 1054265

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Chromium	ug/L	500	466	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1054266 1054267

Parameter	Units	40104189001	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Max	RPD	RPD	Qual
		Result	Spike	Spike										
Chromium	ug/L	<1.5	500	500	461	470	92	94	75-125	2	20			

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QUALITY CONTROL DATA

Project: 60316733 DANA ROSCOE CORP

Pace Project No.: 40104189

QC Batch:	MSV/25926	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples:	40104189023		

METHOD BLANK: 1053497 Matrix: Water

Associated Lab Samples: 40104189023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	09/30/14 06:36	
1,1-Dichloroethane	ug/L	<0.24	1.0	09/30/14 06:36	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	09/30/14 06:36	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	09/30/14 06:36	
Dichlorodifluoromethane	ug/L	<0.20	1.0	09/30/14 06:36	
Methylene Chloride	ug/L	<0.23	1.0	09/30/14 06:36	
Tetrachloroethene	ug/L	<0.50	1.0	09/30/14 06:36	
Toluene	ug/L	<0.50	1.0	09/30/14 06:36	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	09/30/14 06:36	
Trichloroethene	ug/L	<0.33	1.0	09/30/14 06:36	
Vinyl chloride	ug/L	<0.18	1.0	09/30/14 06:36	
4-Bromofluorobenzene (S)	%	92	59-130	09/30/14 06:36	
Dibromofluoromethane (S)	%	93	70-130	09/30/14 06:36	
Toluene-d8 (S)	%	92	70-130	09/30/14 06:36	

LABORATORY CONTROL SAMPLE & LCSD: 1053498

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	56.6	59.2	113	118	70-130	5	20	
1,1-Dichloroethane	ug/L	50	50.9	51.7	102	103	70-130	2	20	
1,4-Dichlorobenzene	ug/L	50	49.5	51.4	99	103	70-130	4	20	
cis-1,2-Dichloroethene	ug/L	50	52.5	53.5	105	107	51-133	2	20	
Dichlorodifluoromethane	ug/L	50	63.2	67.0	126	134	10-174	6	20	
Methylene Chloride	ug/L	50	51.6	52.4	103	105	70-130	2	20	
Tetrachloroethene	ug/L	50	62.7	65.1	125	130	70-130	4	20	
Toluene	ug/L	50	52.7	54.0	105	108	70-130	2	20	
trans-1,2-Dichloroethene	ug/L	50	54.1	55.9	108	112	70-130	3	20	
Trichloroethene	ug/L	50	58.5	59.7	117	119	70-130	2	20	
Vinyl chloride	ug/L	50	54.4	57.7	109	115	59-157	6	20	
4-Bromofluorobenzene (S)	%				100	102	59-130			
Dibromofluoromethane (S)	%				93	93	70-130			
Toluene-d8 (S)	%				94	94	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1054055

Parameter	Units	40104212003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	30.2	50	50	88.8	86.7	117	113	70-130	2	20	

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QUALITY CONTROL DATA

Project: 60316733 DANA ROSCOE CORP

Pace Project No.: 40104189

Parameter	Units	40104212003		MS		MSD		1054056				
		Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max		
										RPD	RPD	Qual
1,1-Dichloroethane	ug/L	21.3	50	50	70.9	73.6	99	105	70-130	4	20	
1,4-Dichlorobenzene	ug/L	<0.50	50	50	50.2	49.7	100	99	70-130	1	20	
cis-1,2-Dichloroethene	ug/L	13.9	50	50	64.7	67.3	102	107	48-137	4	33	
Dichlorodifluoromethane	ug/L	<0.20	50	50	61.4	61.9	123	124	10-174	1	20	
Methylene Chloride	ug/L	<0.23	50	50	50.6	51.5	101	103	70-133	2	20	
Tetrachloroethene	ug/L	<0.50	50	50	63.4	62.4	127	125	70-130	2	20	
Toluene	ug/L	<0.50	50	50	52.6	51.8	105	104	70-130	1	20	
trans-1,2-Dichloroethene	ug/L	0.81J	50	50	54.4	54.1	107	107	70-130	0	20	
Trichloroethene	ug/L	29.1	50	50	89.2	84.5	120	111	70-130	5	20	
Vinyl chloride	ug/L	1.4	50	50	56.6	56.9	110	111	59-158	1	20	
4-Bromofluorobenzene (S)	%						102	101	59-130			
Dibromofluoromethane (S)	%							93	93	70-130		
Toluene-d8 (S)	%							94	93	70-130		

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QUALITY CONTROL DATA

Project: 60316733 DANA ROSCOE CORP

Pace Project No.: 40104189

QC Batch: MSV/25927 Analysis Method: EPA 8260

QC Batch Method: EPA 8260 Analysis Description: 8260 MSV

Associated Lab Samples: 40104189001, 40104189002, 40104189003, 40104189004, 40104189005, 40104189006, 40104189007,
40104189008, 40104189009, 40104189010, 40104189011, 40104189012, 40104189013, 40104189014,
40104189015, 40104189016, 40104189017, 40104189018, 40104189019, 40104189020

METHOD BLANK: 1053515

Matrix: Water

Associated Lab Samples: 40104189001, 40104189002, 40104189003, 40104189004, 40104189005, 40104189006, 40104189007,
40104189008, 40104189009, 40104189010, 40104189011, 40104189012, 40104189013, 40104189014,
40104189015, 40104189016, 40104189017, 40104189018, 40104189019, 40104189020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	09/30/14 06:56	
1,1-Dichloroethane	ug/L	<0.24	1.0	09/30/14 06:56	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	09/30/14 06:56	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	09/30/14 06:56	
Dichlorodifluoromethane	ug/L	<0.20	1.0	09/30/14 06:56	
Methylene Chloride	ug/L	<0.23	1.0	09/30/14 06:56	
Tetrachloroethene	ug/L	<0.50	1.0	09/30/14 06:56	
Toluene	ug/L	<0.50	1.0	09/30/14 06:56	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	09/30/14 06:56	
Trichloroethene	ug/L	<0.33	1.0	09/30/14 06:56	
Vinyl chloride	ug/L	<0.18	1.0	09/30/14 06:56	
4-Bromofluorobenzene (S)	%	90	59-130	09/30/14 06:56	
Dibromofluoromethane (S)	%	107	70-130	09/30/14 06:56	
Toluene-d8 (S)	%	100	70-130	09/30/14 06:56	

LABORATORY CONTROL SAMPLE & LCSD: 1053516

1053517

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	45.3	48.8	91	98	70-130	8	20	
1,1-Dichloroethane	ug/L	50	54.1	54.9	108	110	70-130	1	20	
1,4-Dichlorobenzene	ug/L	50	53.8	53.8	108	108	70-130	0	20	
cis-1,2-Dichloroethene	ug/L	50	51.4	49.8	103	100	51-133	3	20	
Dichlorodifluoromethane	ug/L	50	80.0	71.0	160	142	10-174	12	20	
Methylene Chloride	ug/L	50	64.1	63.8	128	128	70-130	0	20	
Tetrachloroethene	ug/L	50	49.1	49.0	98	98	70-130	0	20	
Toluene	ug/L	50	53.1	53.5	106	107	70-130	1	20	
trans-1,2-Dichloroethene	ug/L	50	68.9	61.2	138	122	70-130	12	20 L0	
Trichloroethene	ug/L	50	55.1	55.6	110	111	70-130	1	20	
Vinyl chloride	ug/L	50	69.5	68.2	139	136	59-157	2	20	
4-Bromofluorobenzene (S)	%				102	102	59-130			
Dibromofluoromethane (S)	%				100	102	70-130			
Toluene-d8 (S)	%				99	100	70-130			

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QUALITY CONTROL DATA

Project: 60316733 DANA ROSCOE CORP

Pace Project No.: 40104189

Parameter	Units	40104189001		MS		MSD		1054052				
		Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max		
										RPD	RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.50	50	50	48.7	50.2	97	100	70-130	3	20	
1,1-Dichloroethane	ug/L	<0.24	50	50	54.2	55.1	108	110	70-130	2	20	
1,4-Dichlorobenzene	ug/L	<0.50	50	50	54.4	54.3	109	109	70-130	0	20	
cis-1,2-Dichloroethene	ug/L	0.61J	50	50	52.3	53.1	103	105	48-137	2	33	
Dichlorodifluoromethane	ug/L	<0.20	50	50	71.0	67.1	142	134	10-174	6	20	
Methylene Chloride	ug/L	<0.23	50	50	66.4	68.3	133	137	70-133	3	20	M1
Tetrachloroethene	ug/L	<0.50	50	50	49.0	49.4	98	99	70-130	1	20	
Toluene	ug/L	<0.50	50	50	53.1	53.0	106	106	70-130	0	20	
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	55.0	54.6	110	109	70-130	1	20	
Trichloroethene	ug/L	1.6	50	50	56.1	56.2	109	109	70-130	0	20	
Vinyl chloride	ug/L	<0.18	50	50	70.0	70.0	140	140	59-158	0	20	
4-Bromofluorobenzene (S)	%						103	104	59-130			
Dibromofluoromethane (S)	%						100	103	70-130			
Toluene-d8 (S)	%						99	99	70-130			

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QUALITY CONTROL DATA

Project: 60316733 DANA ROSCOE CORP

Pace Project No.: 40104189

QC Batch:	MSV/25930	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples:	40104189021, 40104189022		

METHOD BLANK: 1053560	Matrix: Water
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Associated Lab Samples: 40104189021, 40104189022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	09/30/14 07:11	
1,1-Dichloroethane	ug/L	<0.24	1.0	09/30/14 07:11	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	09/30/14 07:11	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	09/30/14 07:11	
Dichlorodifluoromethane	ug/L	<0.20	1.0	09/30/14 07:11	
Methylene Chloride	ug/L	<0.23	1.0	09/30/14 07:11	
Tetrachloroethene	ug/L	<0.50	1.0	09/30/14 07:11	
Toluene	ug/L	<0.50	1.0	09/30/14 07:11	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	09/30/14 07:11	
Trichloroethene	ug/L	<0.33	1.0	09/30/14 07:11	
Vinyl chloride	ug/L	<0.18	1.0	09/30/14 07:11	
4-Bromofluorobenzene (S)	%	88	59-130	09/30/14 07:11	
Dibromofluoromethane (S)	%	106	70-130	09/30/14 07:11	
Toluene-d8 (S)	%	96	70-130	09/30/14 07:11	

LABORATORY CONTROL SAMPLE & LCSD: 1053561

1053562

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.4	54.0	105	108	70-130	3	20	
1,1-Dichloroethane	ug/L	50	54.9	56.7	110	113	70-130	3	20	
1,4-Dichlorobenzene	ug/L	50	53.9	56.2	108	112	70-130	4	20	
cis-1,2-Dichloroethene	ug/L	50	54.9	57.4	110	115	51-133	4	20	
Dichlorodifluoromethane	ug/L	50	55.7	58.4	111	117	10-174	5	20	
Methylene Chloride	ug/L	50	50.0	52.3	100	105	70-130	4	20	
Tetrachloroethene	ug/L	50	53.9	55.2	108	110	70-130	2	20	
Toluene	ug/L	50	56.5	58.7	113	117	70-130	4	20	
trans-1,2-Dichloroethene	ug/L	50	50.8	52.4	102	105	70-130	3	20	
Trichloroethene	ug/L	50	53.8	54.5	108	109	70-130	1	20	
Vinyl chloride	ug/L	50	56.4	58.1	113	116	59-157	3	20	
4-Bromofluorobenzene (S)	%				97	97	59-130			
Dibromofluoromethane (S)	%				104	104	70-130			
Toluene-d8 (S)	%				97	97	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1054053

1054054

Parameter	Units	MS Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.50	50	50	51.8	51.9	104	104	70-130	0	20	

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QUALITY CONTROL DATA

Project: 60316733 DANA ROSCOE CORP

Pace Project No.: 40104189

Parameter	Units	40104181015		MS		MSD		1054053		1054054					
		Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec		Max		RPD	RPD	Qual
									Limits	RPD	RPD	Qual			
1,1-Dichloroethane	ug/L	<0.24	50	50	54.7	55.1	109	110	70-130	1	20				
1,4-Dichlorobenzene	ug/L	<0.50	50	50	54.5	54.4	109	109	70-130	0	20				
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	55.7	55.5	111	111	48-137	0	33				
Dichlorodifluoromethane	ug/L	<0.20	50	50	55.5	55.4	111	111	10-174	0	20				
Methylene Chloride	ug/L	<0.23	50	50	50.6	50.8	101	102	70-133	0	20				
Tetrachloroethene	ug/L	<0.50	50	50	52.9	52.5	106	105	70-130	1	20				
Toluene	ug/L	0.83J	50	50	58.0	57.2	114	113	70-130	1	20				
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	51.0	51.2	102	102	70-130	0	20				
Trichloroethene	ug/L	<0.33	50	50	52.2	53.6	104	107	70-130	3	20				
Vinyl chloride	ug/L	<0.18	50	50	55.7	56.0	111	112	59-158	1	20				
4-Bromofluorobenzene (S)	%						98	97	59-130						
Dibromofluoromethane (S)	%						105	105	70-130						
Toluene-d8 (S)	%						98	97	70-130						

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QUALIFIERS

Project: 60316733 DANA ROSCOE CORP

Pace Project No.: 40104189

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60316733 DANA ROSCOE CORP

Pace Project No.: 40104189

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40104189001	LTMW-08	EPA 3010	MPRP/10875	EPA 6010	ICP/9623
40104189002	LTMW-09	EPA 3010	MPRP/10875	EPA 6010	ICP/9623
40104189003	LTMW-10	EPA 3010	MPRP/10875	EPA 6010	ICP/9623
40104189004	LTMW-11	EPA 3010	MPRP/10875	EPA 6010	ICP/9623
40104189005	LTMW-04	EPA 3010	MPRP/10875	EPA 6010	ICP/9623
40104189006	LTMW-05	EPA 3010	MPRP/10875	EPA 6010	ICP/9623
40104189007	LTMW-06	EPA 3010	MPRP/10875	EPA 6010	ICP/9623
40104189009	LTMW-07	EPA 3010	MPRP/10875	EPA 6010	ICP/9623
40104189010	DUP-01	EPA 3010	MPRP/10875	EPA 6010	ICP/9623
40104189011	LTMW-01	EPA 3010	MPRP/10875	EPA 6010	ICP/9623
40104189012	MW-101	EPA 3010	MPRP/10875	EPA 6010	ICP/9623
40104189013	MW-102	EPA 3010	MPRP/10875	EPA 6010	ICP/9623
40104189014	MW-103	EPA 3010	MPRP/10875	EPA 6010	ICP/9623
40104189015	MW-104	EPA 3010	MPRP/10875	EPA 6010	ICP/9623
40104189016	MW-107	EPA 3010	MPRP/10875	EPA 6010	ICP/9623
40104189017	MW-106	EPA 3010	MPRP/10875	EPA 6010	ICP/9623
40104189018	MW-105	EPA 3010	MPRP/10875	EPA 6010	ICP/9623
40104189019	DUP-02	EPA 3010	MPRP/10875	EPA 6010	ICP/9623
40104189020	LTMW-02	EPA 3010	MPRP/10875	EPA 6010	ICP/9623
40104189021	LTMW-03A	EPA 3010	MPRP/10873	EPA 6010	ICP/9622
40104189022	LTMW-03	EPA 3010	MPRP/10873	EPA 6010	ICP/9622
40104189001	LTMW-08	EPA 8260	MSV/25927		
40104189002	LTMW-09	EPA 8260	MSV/25927		
40104189003	LTMW-10	EPA 8260	MSV/25927		
40104189004	LTMW-11	EPA 8260	MSV/25927		
40104189005	LTMW-04	EPA 8260	MSV/25927		
40104189006	LTMW-05	EPA 8260	MSV/25927		
40104189007	LTMW-06	EPA 8260	MSV/25927		
40104189008	RB-1	EPA 8260	MSV/25927		
40104189009	LTMW-07	EPA 8260	MSV/25927		
40104189010	DUP-01	EPA 8260	MSV/25927		
40104189011	LTMW-01	EPA 8260	MSV/25927		
40104189012	MW-101	EPA 8260	MSV/25927		
40104189013	MW-102	EPA 8260	MSV/25927		
40104189014	MW-103	EPA 8260	MSV/25927		
40104189015	MW-104	EPA 8260	MSV/25927		
40104189016	MW-107	EPA 8260	MSV/25927		
40104189017	MW-106	EPA 8260	MSV/25927		
40104189018	MW-105	EPA 8260	MSV/25927		
40104189019	DUP-02	EPA 8260	MSV/25927		
40104189020	LTMW-02	EPA 8260	MSV/25927		
40104189021	LTMW-03A	EPA 8260	MSV/25930		
40104189022	LTMW-03	EPA 8260	MSV/25930		
40104189023	TRIP BLANK	EPA 8260	MSV/25926		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name:

AECOM

Branch/Location:

Middleton, WI

Project Contact:

Jim Buss

Phone:

608-828-8210

Project Number:

60316733

Project Name:

Dana Roscoe Corp

Project State:

IL

Sampled By (Print):

Allen Hellatz

Sampled By (Sign):

Allen Hellatz

PO #:

Data Package Options

(Billable)

EPA Level III

On your sample

(billable)

EPA Level IV

NOT needed on

your sample

Regulatory

Program:

MS/MSD

Matrix Codes

A = Air

W = Water

B = Biota

DW = Drinking Water

C = Charcoal

GW = Ground Water

O = Oil

SW = Surface Water

S = Soil

WW = Waste Water

WP = Sludge

WW = Waste Water

CHAIN OF CUSTODY

		Analyses Requested		Preservation Codes	
		Y/N	CODE*	PICK LETTER	CODE*
PACE LAB #	CLIENT FIELD ID	DATE	TIME	MATRIX	H=None
001	LTMU-08	9-22-14	1133	6W	B=HCl
002	LTMU-09		1313		C=H ₂ SO ₄
003	LTMU-10		1517		D=HNO ₃
004	LTMU-11		1655		E=DI Water
005	LTMU-04	9-23-14	0925		F=Methanol
006	LTMU-05		1102		G=NaOH
007	LTMU-06		1253		H=Sodium Bisulfate Solution
008	RB-1		1310		I=Sodium Thiosulfate
009	LTMU-07		1422		J=Other
010	DUP-01		0000		
011	LTMU-01		1534		
012	MW-101	9-24-14	0836		
013	MW-102		0951		
Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)		Date/Time:	Received By:	Date/Time:	PACE Project No.
Date Needed:		Received By:	Date/Time:	Received By:	4004189
Transmit Prelim Rush Results by (complete what you want):		Received By:	Date/Time:	Received By:	Received Temp = 22 °C
Email #1:	Relinquished By:	Received By:	Date/Time:	Received By:	Sample Receipt pH (OK) Adjusted
Email #2:	Relinquished By:	Received By:	Date/Time:	Received By:	Cooler Custody Seal Present / Not Present Intact / Not Intact
Telephone:	Relinquished By:	Received By:	Date/Time:	Received By:	
Fax:	Relinquished By:	Received By:	Date/Time:	Received By:	

Quote #:

Sim Buss

Mail To Company:

AECOM

Mail To Address:

1350 Deming way
Middleton, WI 53562

Same

Invoice To Company:

Invoice To Address:

4004189

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

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Version 99-0614/06

(Please Print Clearly)

Company Name:	AECOM						
Branch/Location:	Middleton, WI						
Project Contact:	Sim Buss						
Phone:	108-828-8210						
Project Number:	10316733						
Project Name:	Dana Rescoe Corp						
Project State:	WI						
Sampled By (Print):	Allan Hollatz						
Sampled By (Sign):							
PO #:							
Data Package Options (billable)	MS/MSD (billable)	Matrix Codes					
<input type="checkbox"/> EPA Level III	<input type="checkbox"/> On your sample	A = Air	B = HCl				
<input type="checkbox"/> EPA Level IV	<input type="checkbox"/> NOT needed on your sample	B = Biota	C = H ₂ SO ₄				
		C = Charcoal	D = HNO ₃				
		O = Oil	E = DI Water				
		S = Soil	F = Methanol				
		SI = Sludge	G = NaOH				
		WP = Wipe	H = Sodium Bisulfite Solution				
		WW = Surface Water	I = Sodium Thiosulfate				
		WW = Waste Water	J = Other				
PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	MATRIX TIME				
C14	103	9/24/14	1055	6W	X	X	3-45m LVB
C15	MW-104		203		X	X	
C16	MW-107		13/3		X	X	
C17	MW-106		1425		X	X	
C18	MW-105		1525		X	X	
C19	SDP-02		Octo		X	X	
C20	LMW-02	9/25/14	0840		X	X	
C21	LMW-03A		0936		X	X	
C22	LMW-03		1039		X	X	
C23	Trip Blank	9/22/14	—		X	X	

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

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CHAIN OF CUSTODY

*Preservation Codes

A=None	B=HCl	C=H ₂ SO ₄	D=HNO ₃	E=DI Water	F=Methanol	G=NaOH
H=Sodium Bisulfite Solution	I=Sodium Thiosulfate	J=Other				

FILTERED?
(YES/NO)

PICK LETTER*	Y/N	R	W					
B								

Analyses Requested

VOC 8260(L:5+)

1-Chromium
TOC

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Sample Condition Upon Receipt

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Analytical™

Client Name: A ECOM

Project #

WO# : **40104189**

Courier: FedEx UPS Client Pace Other: CS Logistics
Tracking #:



40104189

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used

SR-44

Type of Ice: Wet Blue Dry None

Samples on ice, cooling process has begun

Cooler Temperature

Uncorr: 2 /Corr: 2

Biological Tissue is Frozen: yes

no

Temp Blank Present: yes no

Temp should be above freezing to 6°C for all sample except Biota.

Frozen Biota Samples should be received ≤ 0°C.

Comments:

Person examining contents:
Date: 9/29/14
Initials: SB

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>w</u>	
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input checked="" type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO ₃ , H ₂ SO ₄ ≥ 2; NaOH+ZnAct ≥ 9, NaOH ≥ 12)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, beiform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>SB</u> Lab Std #/ID of preservative Date/ Time:
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):	<u>COV-AW</u>	

Client Notification/ Resolution:

If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

SB

Date:

9/29/14